THENATIONAL GEOGRAPHIC MAGAZINE

JUNE, 1953

New 10	-Color	Historical	Map	of	the	United	States
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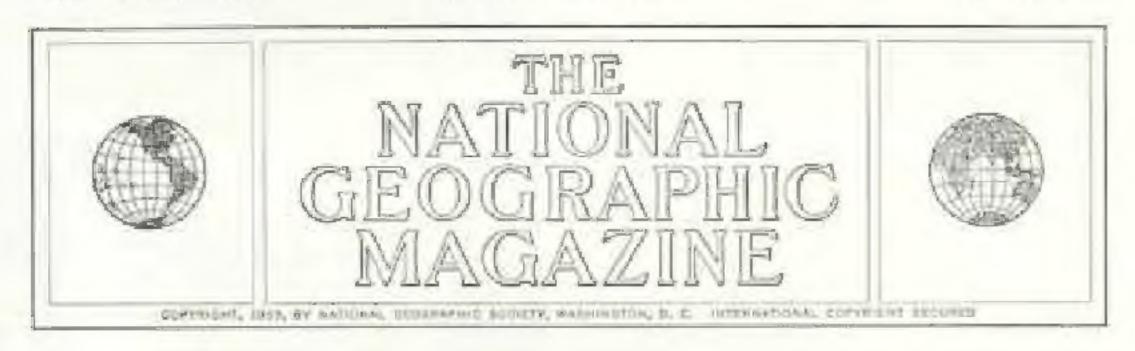
- Following the Trail of Lewis and Clark 707 With 43 Illustrations RALPH GRAY 31 in Natural Colors
- Map Marks 150th Anniversary 751 of Louisiana Purchase EVELYN PETERSEN With 2 Illustrations WELLMAN CHAMBERLIN
- Eight Maps of Discovery 756 6 in Color, 2 in Black and White
- London's Zoo of Zoos 770 With 17 Illustrations THOMAS GARNER JAMES 12 in Natural Colors B. A. STEWART, D. S. BOYER
- Stately Homes of Old Virginia 787 With 11 Illustrations
- ALBERT W. ATWOOD S in Natural Colors Founders of New England 803 With 37 Illustrations 21 in Natural Colora
- Nevada Learns to Live with the Atom 839 SAMUEL W. MATTHEWS With 12 Illustrations

B. ANTHONY STEWART

Sixty-four Pages of Illustrations in Color

PUBLISHED BY THE NATIONAL GEOGRAPHIC SOCIETY

WASHINGTON, D. C.



Following the Trail of Lewis and Clark 707

In a Station Wagon Loaded to the Axles, an American Family Traces the Nation's Oldest Path to the Pacific

By RALPH GRAY "

With Illustrations from Photographs by the Author

XPLORE the Missouri river, & such principal stream of it, as ... may offer the most direct ... communication across this continent

Penned by Thomas Jefferson at the White House 150 years ago this June, those instructions launched the Lewis and Clark Expedition—the exploration that opened American eyes to the maryels of a vast western domain.

New Sights Along Pioneer Trail

Reading and rereading Jefferson's words, I grew eager to see for myself "the soil & face of the country," much of which Lewis and Clark were the first white men to behold.

I thought, too, of my three children. What better way to show them the wealth and spleador of their native land than to trace the trail of those earliest adventurers? How their eyes would pop at the sights Lewis and Clark reported: Indians, great rivers, mountains, waterfalls. At the same time they would see the changes wrought by generations of Americans—farms and ranches, dams, busy cities, dynamic industries.

My hopes sprang to life one June day in Washington, D. C., when my wife and I, with about equal parts of help and hindrance from our youngsters, packed our station wagon with camp gear, toys, cameras, and clothing. On top we lashed the campe Trant, a veteran

"Daddy says we'll cance at some places to make it seem more like real exploring," 12-year-old Judith explained to her younger sister, Mary Ellen. "Lewis and Clark traveled mostly on rivers."

The red 18-foot craft attracted friendly gibes as we traveled toward mid-continent.

"You're going in the wrong direction for boating," one man called as we crossed the Alleghenies. "Fish are scarce on the Plains,"

In a corner of the station wagon I installed a compact library featuring a set of the Lewis and Clark journals. These journals were our guidebooks—a ready-made itinerary.

Opening volume one, I learned that the explorers camped at Wood River, Illinois, in the fall of 1803 before pushing off for the faraway Pacific. (For the route of the Lewis and Clark Expedition, see the National Geographic Society's Historical Map of the United States, a supplement to this issue.)

Wood River Now Flows Backward

Three days out of Washington, we stood at Wood River landing, 15 miles upstream from St. Louis, watching the mighty Mississippi slide by (page 717). I looked across for the mouth of the Missouri. The journals said it should be there, but it was nowhere in sight.

"Can geography itself bave changed in the 150 years since Lewis and Clark camped here?" I asked Dr. G. F. Ordeman, refinery manager of Standard Oil's Wood River plant. "Indeed it has," he replied. "The Missis-

*See also, in the Narrowan Groomeric Magazine, "Vacation Tour Through Lincoln Land," by Ralph Gray, February, 1952. That article, adjudged on "outstanding achievement in bringing about a better understanding of the American way of life," was the author the George Washington Honor Medal and a cash prize from Freedoms Foundation, Valley Forge, Fennsylvania. Mr. Gray is chief of the National Geographic Society's School Service.

Lewis and Clark's Buckskin-clad Stalwarts Portage Heavy Dugouts Around Celilo Falls

On the Oregon side of the Columbia all hards work at circling the 20-foot drop. Meriwether Lewis and William Clark (center) direct the job. Sacagawen tright). Indian woman who accompanied the expedition, stands with her husband, Charbonnesia. This mural by Frank Swartz decerates the rotands of Oregon's capital at Salem.

After army clothing were out, the explorers and their men dressed in animal skins. Crossing the Plains, they lived mostly on the bounty of the land,

At Cellio Falls, Clark wrote in his journal: "We purchased 8 Small fat dogs for the party to eats; the native not being fond of Selling their good fish, compells as to make use of Dog meat for food, the flesh of which the most of the party have become fond of"

Here the Lewis and Clark party neared the end of its westward journey. The author and his family, starting near St. Louis, Missouri, a century and a half later, retraced the Lewis and Clark trail.

Y Celilo, Now as Then, Is a Fine Spot for Catching Salmon

Today fishing rights at the falls belong solely to the Celifo Indians, who wield nots from precarious perches (below): Backwater from a dam being built at The Dalles soon will cover this spot

708.

That Athenra







709

sippi has shifted eastward, and the Missouri mouth has jumped three or four miles south.

Wood River, the stream that gave its name to Lewis and Clark's pioneer camp, now flows backward! It was blocked in 1917 two miles above its mouth. We made the last half mile a canal to lead Mississippi water to our refinery. Processing gasoline requires a lot of cooling water, you know,"

In the Footprints of History

From Wood River our "expedition"—my wife, our children, and I—logged 10,000 miles in three months following the Lewis and Clark trail. The first three miles took us along a barely passable track that brought us opposite the present mouth of the Missouri, Judith, Mary Ellen, and Will raced to the water's edge.

"I rom this meeting of waters," I told them,
"Lewis and Clark set out." Then in simple
words I tried to tell this great American
adventure story—how the explorers paved
the way for the Nation's growth from an
Atlantic community to a great power spread
across a continent.*

This on-the-spot history lesson held the youngsters' attention. Ten-year-old Mary Ellen perched pensively on a driftwood log, dangling her feet in the swift, silent Mississippi. Even 6-year-old Will was comparatively stationary.

"That water you're trying to fall into," I said, "formed the western boundary of the United States in 1803."

In May of that year President Thomas Jefferson bought the large Louisinna Territory from Napoleon. (See pages 751 and 752, and inset, "Growth of Our Country," on the new Historical Map of the United States.)

One hundred and fifty years ago this June Meriwether Lewis scratched out a letter to William Clark, his redheaded comrade of the Indian wars. He described a project that Jefferson and he had dreamed of for years.

The President wanted 29-year-old Captain Lewis, his private secretary, to choose a cocaptain and lead a small Army detachment up the Missouri to its unknown source, cross the fearsome Rockies, and descend the almost legendary Columbia to the Pacific.

Clark Welcomes "Imense Undertaking"

Lewis wondered, in his letter, if Clark could be induced to participate in such a trip's "fatigues, it's dangers and it's honors."

William was the youngest brother of George Rogers Clark, the patriot of the Revolution who won the territory that became Ohio, Indiana, Illinois, Michigan, and Wisconsin.

Young Clark imped at the chance. He wrote: This is an imense undertaking fraited with numerous dificulties, but my friend I can assure you that no man lives with whom I would prefer to undertake and share the Dificulties of such a trip than yourself."

In those days each man was his own master, even in spelling.7

* See "Trailing History Down the Hig Muddy," by Lewis R. Freeman, Narional Geographic Magazine, July, 1928.

t Historical quotations, with a few exceptions, are from Original Journals of the Lewis and Clark Expedition, 1804-1806, edited by Reuben Gold Thwaites.



710

A Nehraska Farm Stands Fost Against the Missouri River's 1952 Flood

Fictured at their crest near South Sloax City, the waters cover fields and lap at house, outbuildings, and parked machinery. Sity, debris-laden flow has polluted the well pumped by the windmill.



711

Milling Cattle Seek Refuge Behind an Emergency Dike on a Barnyard Island. The farmer stayed behind to care for his threatened livestock. Feed delivered by plane and amphibious vehicle helped save his bewildered animals. Some stand shank-deep at the feeding troughs (top).

By the end of 1803 he and the "robust helthy hardy young men" recruited for the Corps of Discovery were encamped beside the Mississippi. Lewis, making final preparations in St. Louis, would join them later.

New Find: Clark Papers in Attie Desk

The published journals are rather skimpy in their treatment of the months at Wood River. Now at last many original notes, penned by Clark in camp or keelboot, have turned up only this year. Lost to scholarship for 150 years, this treasure-trove of new information about those early days of the expedition was found among the papers of a little-known Civil Wargeneral, John H. Hammond. They had gathered dost in a St. Paul attic until 1953!

As I was writing this narrative of our trip, the electrifying news broke that the Minnesota Flistorical Society had uncovered 67 original William Clark manuscripts eached in a desk once owned by General Hammond.

Flying to St. Paul. I held the documents in my hands and easily recognized Clark's characteristic scrawl and the accurate drafts-

manship of his maps (page 734).

How the papers got there, we don't know," said Dr. Harold D. Cater, director of the Minnesota Historical Society. "There's no known connection between the families of Clark and Hammond, None of Hammond's heirs knew about the Clark papers, nor was there may family tradition of special interest in Lewis and Clark."

In 1803 the 1.000 or so inhabitants of St. Louis lived and worked by the riverside (pages 715 and 756). This section has been cleared of buildings recently to make way for a fitting memorial to Jefferson and national expansion. Parking lots, however, still cover much of this old gateway to the West.

After their trip, I learned, both Lewis and Clark settled in St. Louis. Clark's descend-

ants still reside in the area.

In St. Louis I asked William G. Clark, Jr., great-great-grandson of the famed explorer, if I might photograph him with one of the Lewis and Clark objects displayed in the Missouri Historical Society museum.

"I've got something better than that," he told me. He produced a paper signed by G. Washington" in "the 17th year of the independence of the United States" (1793), commissioning Clark a lieutenant (page 749),

Clark and his men set out from Wood River on the great adventure "at 4 of lock P.M., in the presence of many of the neighbouring inhabitents, and proceeded on under a jentle brease up the Missourie..."

The day was May 14, 1804. The Corps of Discovery had embarked, not to return until September, 1806.

The expedition used a 55-foot keelboat carrying a square sail (page 7191). When wind failed, the craft was poled like a Nile barge, rowed like a Greek galley, or towed from the bank like a Yangtze junk. Two pitogues—long, slim rowing boats—completed the flotilla.

The official party listed 31 men: Army volunteers from posts along the Ohio and Mississippi, Kentucky hunters, French watermen, a Negro servant belonging to Clark, and

the two captains.

Sopplies included flour, meal, pork, drugs, medical instruments, salt, extra clothing, tools, gunlocks, flints, powder, and ball. Fully twice as much space was taken up by trade items for the Indians—"tho' not as much as I think ness? for the multitude of Ind," thro which we must pass...," Clark commented.

Lewls and Clark's expenditures were limited by Congress to \$2,500. The patriots budgeted this meager sum to such a nicety that, except for the pay of personnel and materials obtained from Government posts, it covered the entire expense of the expedition.

Traveling frugally with my family, I spent slightly more in three months on the Lewis and Clark trail than the original party expended in three years. (Considered as a single long journey, Lewis's trip to the Pacific had begun in Washington, D. C., in July, 1803, 10 months before the actual start up the Missouri.)

"We have something in common with our predecessors," said Jean, my wife. "They seemed to have as much trouble as we do get-

ting away on time!"

Dinner and Tourts Delay Departure

At St. Charles, where Lewis joined his companions, a farewell dinner and toasts on May 21 delayed the captains until 3:30 p. m., when they finally pushed off "under three Cheers from the gentlemen on the bank." In what was left of the day, the party traveled one mile per cheer!

Next morning at 6 the expedition started in earnest. It covered 18 miles before making camp—nearly double the 10 miles a day which was to be their average during the

struggle up the Missouri.

Their journals reveal Lewis and Clark both as warmly human men. Like legendary Damon and Pythias, they were true friends, despite sharply contrasting personalities.

Lewis was a real leader, courageous but prodent, a quiet man, a thinker and an idealist. He enjoyed lonely tramps through the forests and often wandered for inland, while his men pushed along the river. Bluff, genial Clack was practical, realistic, and friendly.

Jefferson appointed Lewis the leader, but

Lewis regarded Clark, four years his senior, as his equal in all respects.

Lewis carried out most of the scientific observations, while Clark served as the party's map maker and was the more skilled waterman. Before leaving the East, Lewis spent three intensive months schooling himself in various sciences, mastering celestial navigation, and planning the details of the Erip.

Fall Nearly Ends Lewis's Career

Lewis's ronming instincts nearly brought disaster the second day out of St. Charles. slipped while climbing along the edge of a 300foot cliff on the south side of the river. Luckily, he caught himself 20 feet down.

At the foot of the chiff, near present-day St. Albans, the rest of the party stopped in a cave called the Tavern. They studied the names of voyagers who sought shelter there, looked in wonder at Indian Images painted on the walls, and measured the huge chamber.

This important Lewis and Clark landmark was lost for decades behind a river-built bank until Dr. Raiph P. Bieber, of Washington University in St. Louis, recently rediscovered it.

"How do you know this Is the Tavern of the Lewis and Clark Expedition?" I asked Dr. Bieber as we stood on the floor of the cavern.

Dr. Bieber whipped out a tape measure. The cave stretched 120 feet wide, 40 feet deep, and 20 high -the exact dimensions reported in the journals.

A few miles upriver Lewis and Clark passed



Young Pathfinders Explore French-settled St. Charles

High-chimmeyed brick homes give the Missouri town an Old World look Though built flush with the sidewalk, they have guidens in the rear. Of hundreds of present-day Missouri River towns, St. Charles was the only one in existence when Lewis and Clark trekked west.

La Charette, a trading village of seven small houses—"the last white settlement on the river." I learned that a flood had long since washed away its site. St. Charles, Missouri, remains the only community on the westward Lewis and Clark trail that existed when the explorers passed (page 713).

The swirling milk-chocolate waters of "Big Muddy" led us in our turn west and north through woodsy Missouri, Mother of the West; wheat-growing Kansas; com-helt Iowa and Nebraska; and the Dakotas, where farms

give way to range.

We began to realize that a summer was none too long for covering the Lewis and Clark toute. We were always in a hurry. Even our meals were rushed.

"When it comes to eating, you don't think of Duncan Hines," my wife reproached me.

"You think of dunkin' doughnuts."

We stayed often in motels. The kids became as sharp-eyed at spotting "vacancy" signs as in locating Lewis and Clark markers.

North of Omaha, Nebraska, local historians led us to the place where they believe Lewis and Clark held their first council with the Indians. Such meetings were repeated countless times as the expedition moved into new tribal territories (page 720).

Death Struck but Once

At Sloux City, Iowa, we paid homage at the grave of the first American soldier to die west of the Mississippi. Sgt. Charles Floyd was "taken verry bad all at once with a Billose Chorlick" [bilious colic] on August 19, 1804, and "Died with a great deal of Composure" the next afternoon. He was the only fatality of the entire expedition.

As we rolled across the Big Sioux River into South Dakota, a different world opened before us, as it had for Lewis and Clark. Here Joe Fields, one of the expedition's Kentucky hunters, killed the party's first American bison, commonly called the buffalo—the first

some of them had seen (page 250).

Later, antelope were sighted. Called goats by the captains, they were then unknown to science. Clark described one as "Verry actively made, has only a pair of hoofs to each foot, his brains on the back of his head, his Norstrals large, his eyes like a Sheep."

The day after seeing the antelope, the party encountered its first prairie dogs. They "Set erect," the journals comment, and "make a Whistleing noise." The colony covered four acres. Lewis and Clark's men poured five harrels of water down one burrow to dislodge its owner.

The plains teemed with game; the men lived well. The land was as friendly as the river was bostile.

Lewis and Clark learned quickly, as do those who live along the Missouri today, that it is a "devil-river" constantly at war with humanity. Its current bore down upon them with unremitting force. Its mud banks dropped off, nearly swamping their canoes, its eddies devoured sandbar islands as the men camped on them. Logs menaced the boats.

Blue Lakes from Brown Waters

The explorers covered 3,0% miles, by their own count, in their 15-month uphill push against the Missouri. Along paralleling modern highways we covered the same distance in a few weeks. The "Orange Crate" (Judith's nickname for the station wagon) took us through areas devastated by the flood of April, 1952—tuined croplands, new-cut channels, mud-spaked towns, wrecked and abandoned buildings (page 710).

We saw what the U. S. Army Engineers and the Bureau of Reclamation are doing to limit such disasters. The Engineers are building a series of earth-fill storage dams whose impounded waters will form an almost continuous chain of lakes from Yankton, South Dakota, to the Montana-North Dakota border.*

"They say the lake here will be blue," an unbelieving woman in Chamberlain, South Dakota, told me. "I've never seen Missouri

water that wasn't brown."

These flood-control projects fit into a development program for the entire Missouri River Basin that will also produce power, provide irrigation, and stubilize downstream navigation.

As I stood with the children on heights overlooking the Onhe and Garrison projects, we saw a vast, dusty disarray of earth constantly churned by panting machines and diesel-powered Euclid tracks.

Fort Randall Dam, half-finished when we were there, made a more complete picture.

* See "Taming the Online Missouri River," by Frederick Simpleb, National Geographic Macause, November, 1945.

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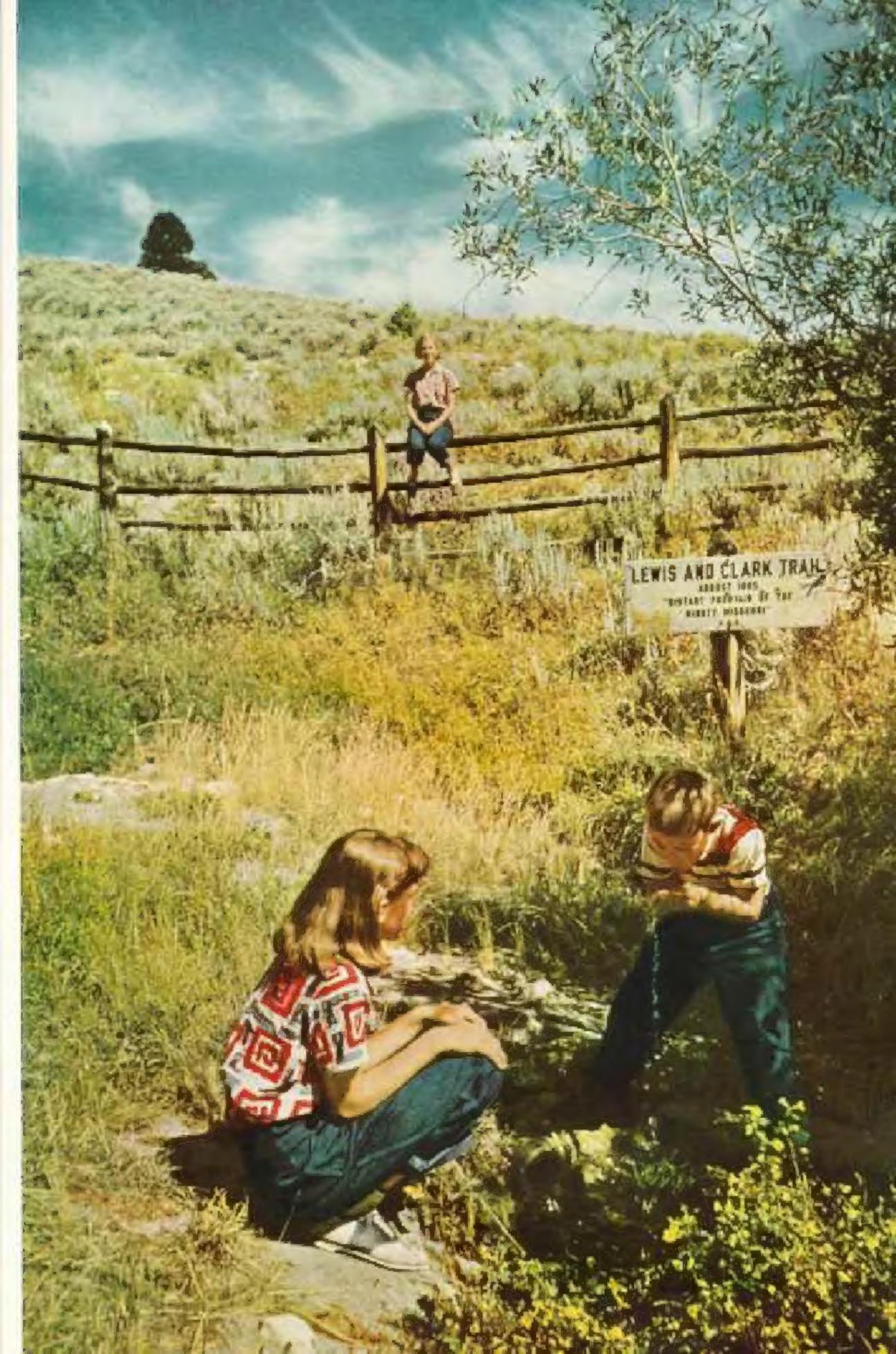
The Author's Children Drink > at Lewis and Clark's High-water Mark

On August 12, 1805, Meriwether Lewis reached this "most distant fountain of the waters of the Mighty Missouri in surch of which we have spent so many tollarme days and wristless nights. Judge... the pleasure I felt in all a lying my thirst with this pure and ice-cold water." wrote Lewis—scientist, diplomat, and explorer, but not a speller—in his journal.

From this point, high on the Montana slopes of the Continental Divide at Lembi Pass (page 740), the pathunders pushed into the Columbia watershed and

penetrated to the Pacific,

The Gray family, camping beside the spring, found it still pure and ice cold.





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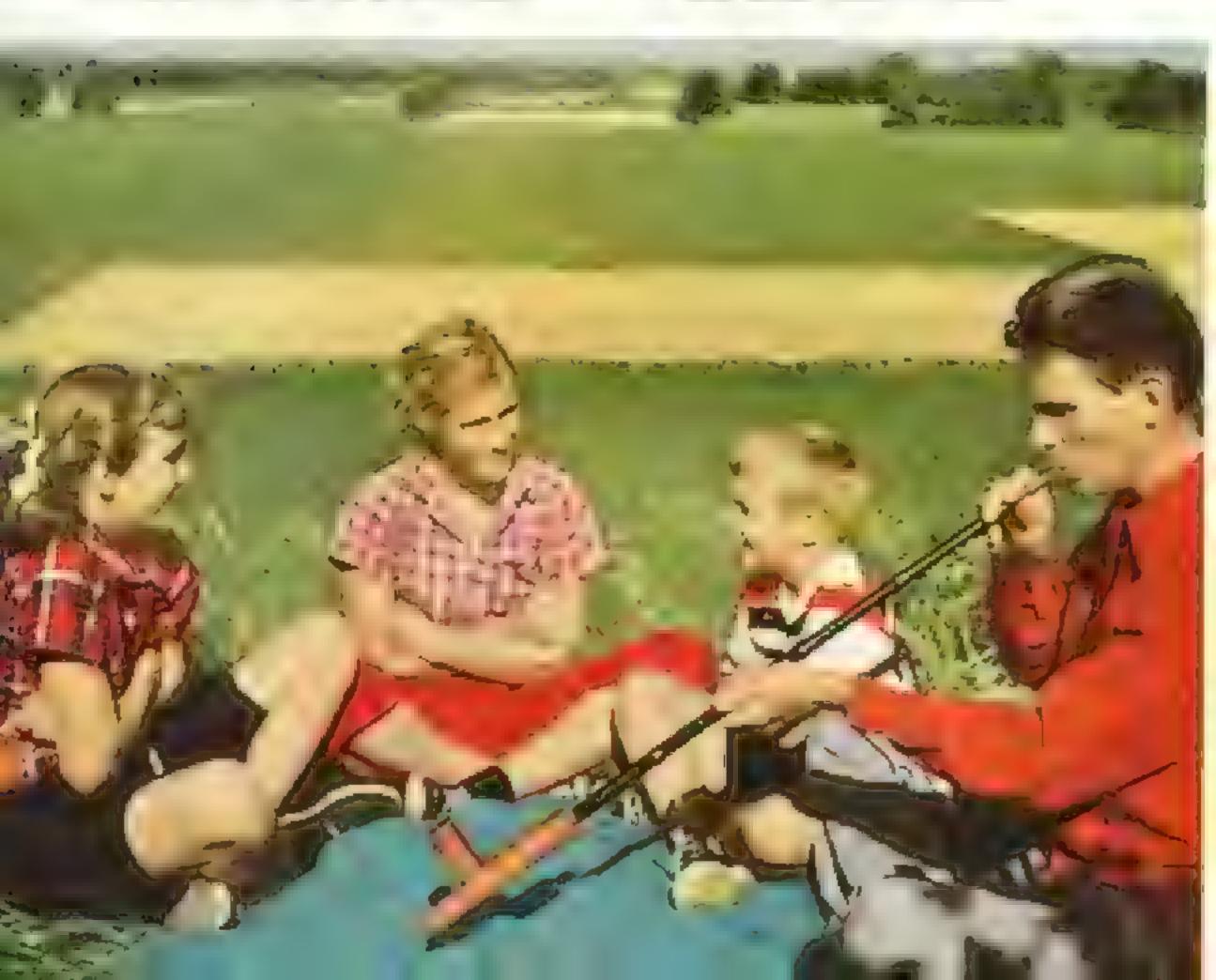


A Young Pilgrim Files a Progress Report

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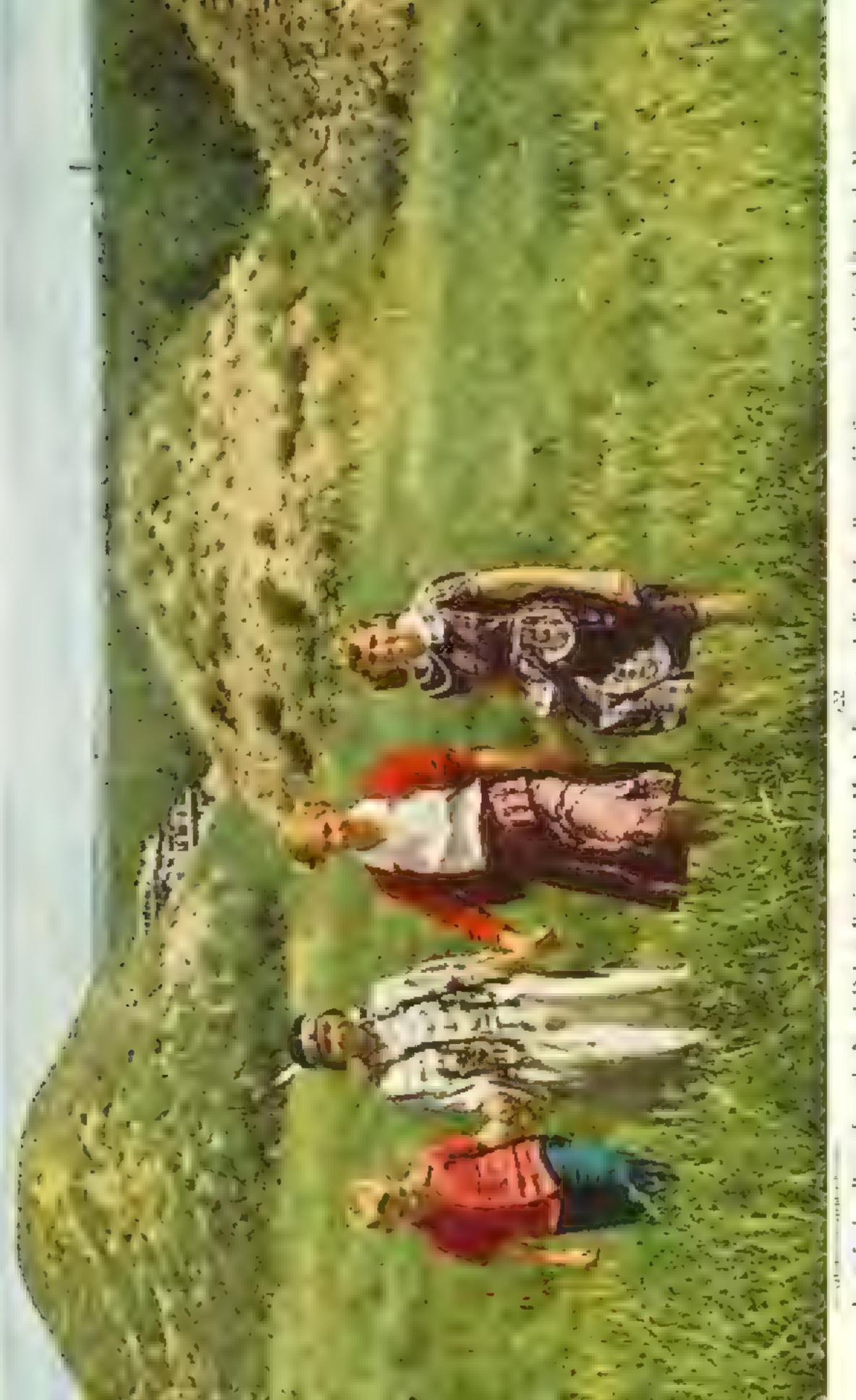
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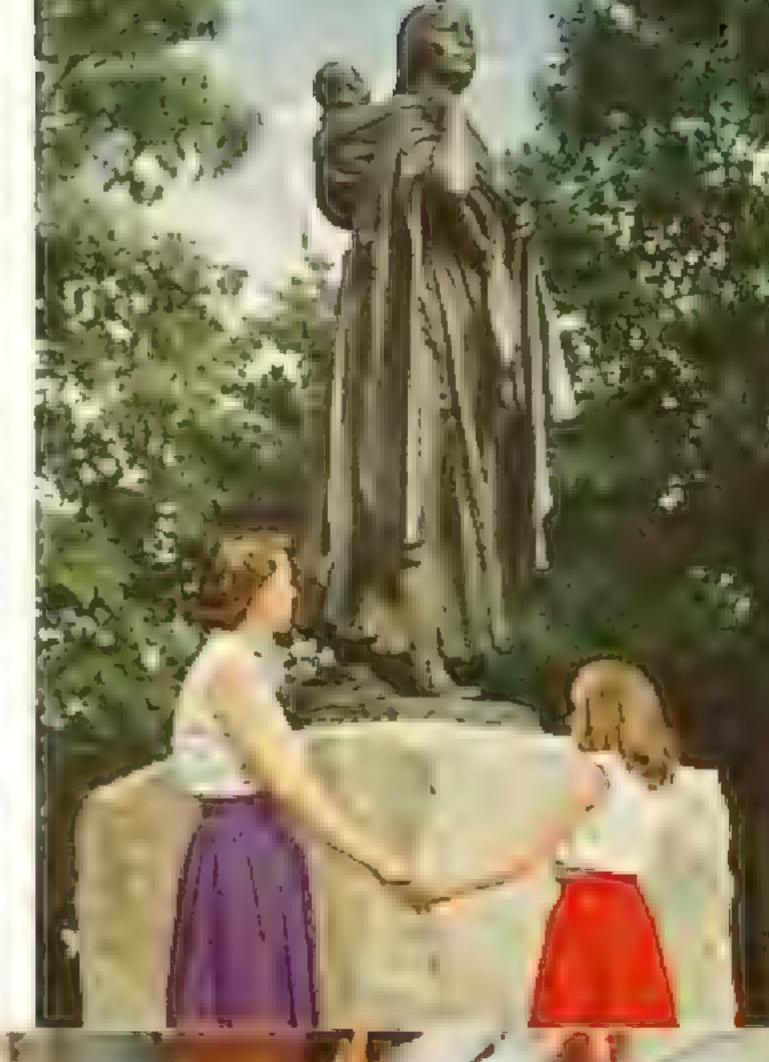
Alberto St. Chair and Judob Gray Test Missouri Waters Near Chaig, Mantana

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Sacagawea Showed the Way > West to Generations of Women to Clause

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Lowis and Clark Were the First Explorers to Report the Wealth of the High Plains.

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The 160-foot-high earth fill jutted a mile from the north blaff to the reverbank. A monster dredge socked chalk rubble from the bank and built a sill across the river. The finished sill will divert the river through a bypass. Then engineers will push the embankment across the old reverbed, completing the dam in 1957.

At Gaving Point Dam, near Youkton, we asked if we could drive down to river level,

to see Calumet Buff.

"Stay over to the right on that construction road, keep moving, and den't get in the way of these Eucs," a workman shouted.

In a fog of dust we crept flown the long slope. A Euchd jounced past, carrying 14 cubic yards of dirt as if it were a shovelful. A continuous procession of these bugewhered monsters lurched to river level and dropped their auchens, anchoring the newtors dant to Calumet biofi.

What a different were when Lewis and

Clark counciled here with the Sious!

For days the captains had tried to arrange a meeting with the powerful tribe. Many times they "Set the Pravies on fire as a signal for the Sames to Come to the River." At hist several chiefs arrived at the Calumet Bluff camp. They wardy contailed with the strangers. Near by, Lewis and Clark planted a strange banner. For the first time these in Lans saw the American flax.

Indian Dances: "a Houp & Hollow"

Lewis and Clork were honest councilors and alle diplomats. The warriors were more currous than hostile. The pipe of peace went around. Thirty Sibux braves claused for the party, maving begt, John Ordway to note that such Indian affairs "always began with a houp & hollow & endert with the Same,"

In the journals I read that the Sioux were to Stout hold looking people, (the young menhandsom) & well made . . . the Warriers are Verry much deckerated with Paint Corcupine quits & feathers, sarge leagins and morker-one, all with holfslow roads of Dafferent Cub urs, the Squars wore Peticoats & a White Buffalow roads with the black more turned back over their necks and Shulders."

Upstream, near present day Pierre, capital of South Dakota. I showed the children where the Teton Sioux gave Lewis and Clark some troublesome moments. The expedition baruly

gut through without a fight.

Then we came to the domain of agen alteral tribes, the Arikaras, Minneturees, and Mandans, who lived in semipermanent earth holge allinges along the Miss uri. Most of them were in what is now North and South Dakota.*

Over modern highways that would have ustounded our producessors, we steered the Orange Crate toward Bismatck, capital or

North Dakets. As I drove, my wife quated from our traveling library.

'Lewis and Clark," she amnounced "spent the winter of 1804-05 in the region morthwest of Brymarck."

The Mandan Inditus of the area, she told the children, were known by the explorers to be friendly to whites. Lewis and Clark had come 1,000 miles in five manths. They tack Fort Mandan and settled down for the winter

"Do the Mandans still live in dirt buts

like they used to?" Judith asked.

"No. Most 20th-century Indians live in houses. The earth lodge is all but 6 rgc tten. And soon those big dams you've been seeing will drown most of the old sites."

Scientists want to learn more about earthladge people before the waters come. I talked with Dr. Gardon C. Bardwin, National Park Service an becogist, about their work.

"The Smithsonian Institution below the National Park Service supervise the solvage program," he told me, "The Fareau of Rechtmation, Army Engineers, and local groups and universities also participate, We've brought to light hundreds of earth-lodge sites, Search has revealed other places of hal tation ranging in date from several thousand years before Christ to the early white eta."

Near Chamberlain my youngsters spotted a group of men diaging in a tield beside U. S. 16. We tumbled out of the car and watched They were high-school and college archeology stadents, working for the Nebraska State Historical Society.

'Gee, someday I'd like to do something like that during the summer," said Mary Ellen.

Forth Lodges Restored Near Businersk

The loys showed us a large ceremental ofge and two earth dwellings they had nucovered. These were built by Ankaras about 1750. Hard parked cormilar floors were exposed just a few feet from the highway. A tourest, curious about the activity, asked the lays were preparing the laundation for a silo

The children quickly learned to spot the dimples that indicate earth lodge sites tyage 732). As a climax, in Fort Abraham Lincoln state Park near Hismorth, we saw five restores, lodges rising like earthen but has under the green soil (page 722). One of them was completely furnished, with bunks around the edge, five jut in the center, cache puts in the floor, and grinching basins for com. A ballahi skail on a stack made a family after.

It Jooked so homelike that Will asked.
"Are you sure no one lives here?"

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His mother reassured him "But," she said, it was in a house just like this that Sacastance or when he are the less that Clark."

Oh, Sacagawea," Mary Ellen said. She stard but over the cuit cult name. "We read a story about her in school.

has, a prefer than here to the Parth of his late to the state of the late two the part that the part that the between the plant the part that the between the plant of the part that the

Why did she go with them?" Will asked. For answer, I took him back to the lectanger's childhood. Saragawea was a Shoshool living in the Rocky Mountains." Rading Minnetgrees captured her in 1800 when she

was about 12 years old, and carried her auch to the Plains. There she remained a slave of the continuous of the continuo

Through the traktown lands also at the amand Clark would need interpreter. They and the form a land of the second states and the second second

The explorers knew that at the Misson source they would have to abandon the boust. The Shoshouis were the only people in 1. It also from whom they might halp

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mores for the trip across the "Shaing Mountains". Providence had set them an am-

Mousen Spengawen Joins by Air

Like our predecessors, my family and i were joined by a Shoshoni princess. Lewis and Clark's Sacagawea came to them across the by Missouri in a tublike heat of Lutulo skins. Her modern counterpart. Mass Alberta St. Clair—came to us not of the sky at Hismarck in a two-motored arrings.

knowing the common beritage of Alberta and Sacagawea, I had asked her to join our planinge. Plan she been a princess of Cathay, my children could not have been

more thrided.

"My friends call me Tiny," she tild us. "from my Indian name, Itandatze, which means Little Chie". In camp the next night she proudly modeled two decream dresses, one decorated with riks' teeth and the other beautifully beaded. Both are heitler as.

The children fought to sit next to Alberta in the status wagens. Will asked if she west

to soboot

Wyoming, But when I was in the first grade like you. I went to school on the reserva-

Alberta gabbed happaly with the girls about movies and popular songs. For three weeks

alse was one of the family.

We left bismarck in a curavum ted by Russell Raid, superintendent of the State Hastorkal Society of North Dakota, and drove across vast, windy plains. Gusts threatened to slow the came out the car, but we safe y reached Fort Berthold Indian Reservation.

During a blustery afternoon shower we came to a village site ratled Like-a-fishbook. There, beside the Missouri, on a broad grass-hard which Garrison Dam wit flood, we set up camp next to the tents of the historial society (page 723).

The Expedition Leaves Fort Mandan

Lewis and Clark left Fort Mandan after Histor whiter layover on April 7, 1805, at 4 p.m. (amother late start). The captains

were fubiliant.

It was still a water-borne party. The kee boat, loaded with letters, dispatches, and specimens of Plains hie—dead and alive—for the scrutiny of President Jefferson, had been sent than the Missouri to St. Louis, Indity-one men and Sacagawea set out to wrestle six small camoes and the two piregues—one red and one white—up the dwarding rater.

willias little fleet! In used Lewis, walthought quite so rispectable as those of Columbus.

or Cast. Cook, were still viewed by us with us much pleasure as those deservedly famed adventurers ever beheld theirs; and I cure say with quite as much anxiety for their safety to I preservation. We were now about to penetrate a coan by at least two taousand wiles in width, on which the first of civilized man had never tradden; the good or evil I had an store for us was for experiment yet to determine, and there attle vessels contained every article by which we were to experiment of a defend ourselves."

A month later, at a point which we reached in two easy days. Lewis's worst fears were nearly realized. The white pirague, laden with the expeditions most valuable baggage, turned hearly "top-atures" dating a sudden of. I from the bank, Lewis and Clark

watched help essly,

Sacagamea, Let hally strapped to her back as usual, calmiv ching to the stern of the boot with one hand and fettleved with the other hearly everything of value as it floated by. Her buspand, the helmsman at the moment, froze with fear. Crazatte, the howman, by, to threaten blue with shouting before be would grasp the he m and right the vesse.

Grizzly "Reather Intimedates Un All"

I could not miss the excitement of the journals as they described the party's approach to be Rockin [1], to be the at a party was encountered and described for the first time by whites, [2], a these tear being so hard to die reather entimediates us not being so hard to die reather entimediates us not because and had reather fight two lindians than one hear."

The men also made the acquaintance of cactus. The spines of the prickly pear easily penetrated their moccasins. Clark one night placked 17 thorns from his feet. My children, warned by this, walked with extreme

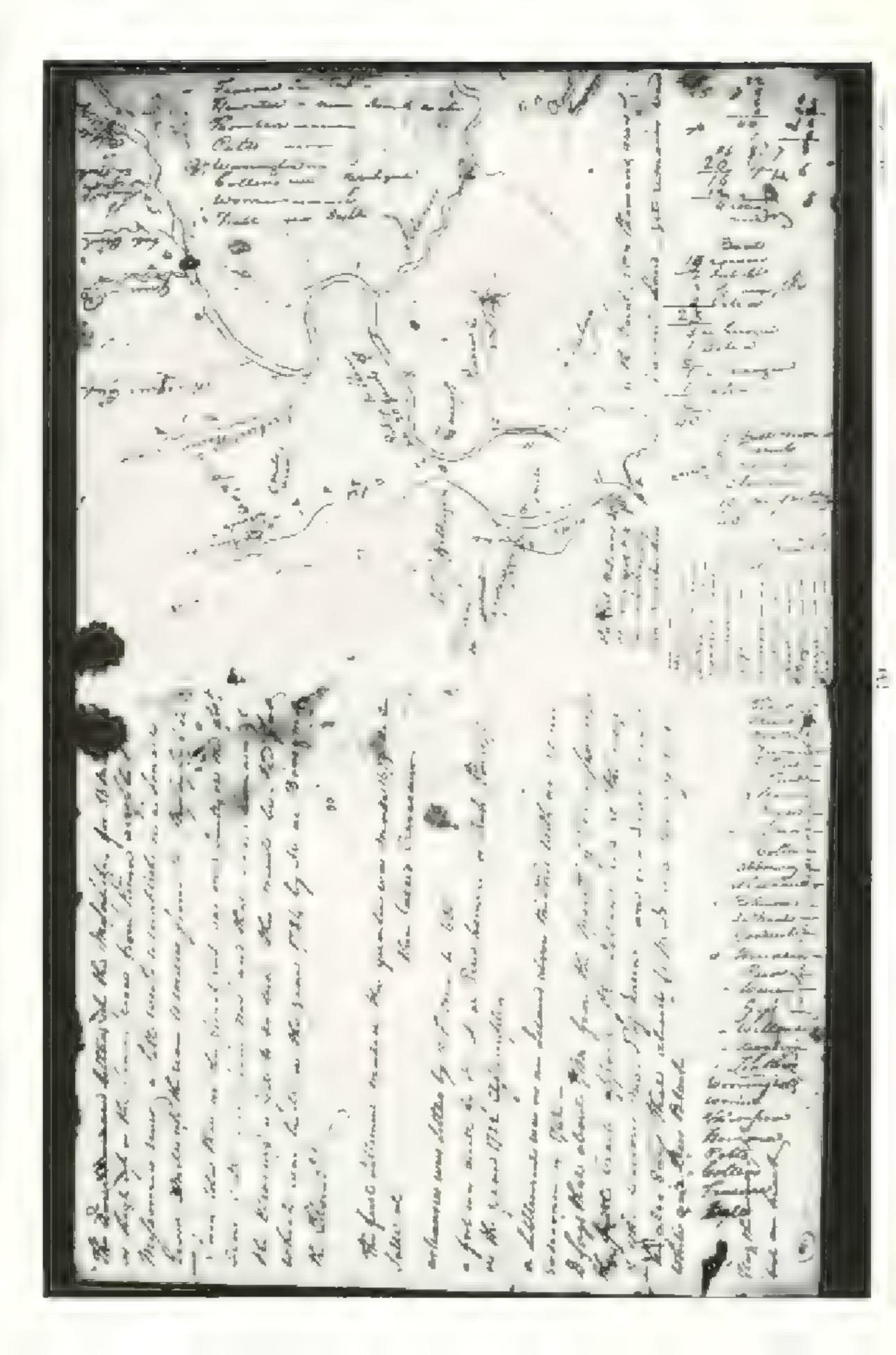
care on the plains trage 750).

The property gazed in womer at a great electhed running in from the south with at a drop of water in it. Drawing an and region, it flowed only in spring or after heavy sains. Now the tremendors lake behind bord leck Dam permanently falls hig thry threek. We all piled into the motor lament Sansprace and cruised some 250 feet above submerged ranks where the expedition's riverness once towed their boats with elk-hale ropes.

On May 25, from high hills on the north, Lewis "beheld the Rocky Mountains for the

first time

With the coming of spring the young captains' thoughts turned to girls they had left belief, Clark named Jud to River for Julia Hancock, a Virginia damsel whom he called Judy and later married. Lewis christened



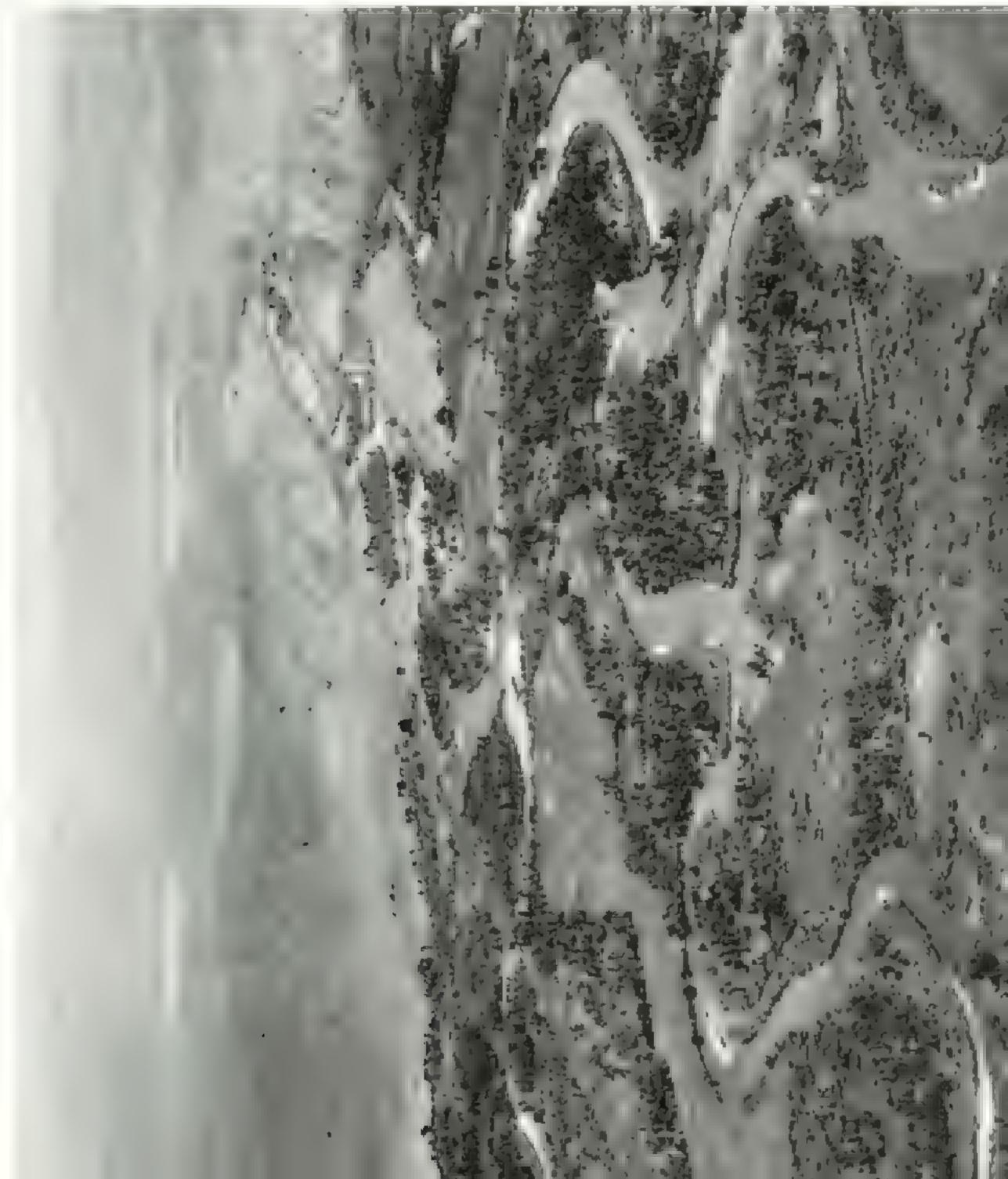
* (Lak's Marship) Recale a Crabbad Hank, Ski ful Draftsmorst p

· M.,

rate through Says in the late of the late

A Mean bring Rivers Thesh Waters at

The William of the collision of the coll





* Aliverty & Greek and I many these has my Monnaments Many the Lewis and Cityra



Maries River in honor of Maria Wood, a

pretty cousin.

The nen thought Marias River the course they should take. The captains, in perfect agreement as us nd, held that the true Missouri was the southern lock. Lewis s discovery of the Great Falls of the Missouri a few days later settled the matter; larlans. had fold them the Missouri thundered out of the mountains in a series of falls.

Great Ends Robbed of Water

We followed the trad to these 'truly magnificent and subbrely grand" falls. "From the commencement of time [tley had] being concented from the view of civilized man," wrong their discoverer. Today the water, shunted through turbines, provides power for Great Falls, Montana. The casvailes in summer often are mere tenkles?

Four separate calarants are, owny rapids ritop is total of 500 feet in \$1 miles. Enraptured by the sight, Lewis transport idone beside them. Next day be shot a buffalo for his evening ment. While watching it die be was sud kinly charged from behind by a

large erizaly bear.

His gun empty, Lewis fled across a treeless plain beside the river. The bear galand fast. The man splashed into the water to chief depth, turned and faced his acversary with his espon ton, a kind of spear which was then standard issue to subjects.

At the water's edge, the animal four only wheeled , .. declined the conduct , . . and retreated... the chase of his allutm ... mis-

terious gard unaccountable."

Nowhere did the expedition find wildlife more abundant than on the Missour's upper reaches. But to show my children the wondrous animula so often peoploped in the journals, I had to detour to profes ted ranges where today's small berds dudge extlanthun. We saw bears—brown, charamon, and ldack and elk in Yellowstone National Park; Euffalo ia two Wyomang preserves (page 729); antelope near Townsend, Mortana prairie dogs at Berris Tower Natural Monument, bighorn speep to the Black Hulls.

Clark marked out on 15-wile reate for portaging around Great Fills. From the only large collonwood tree in the vicinity the men made wheels 22 inches to diameter mast from a pérogue was out up to pri le

axles for two cards.

The portage consumed an entire month On July 15, after eaching everything that could be left behind, the expedition pushed appriver in eight camoes. Large houts could is longer be used, so two new collons and diagonals judaced the flect,

in this region, where mountains press

reads next to investigable, we were able to follow the trail closely by car. We entered Muntana's Lewis and Clark County and launched Trout, our own cance, in the swift-flowing Missouri hexide 1', 8, 91 † We paddled also it in the vicinity of the expedition's July 17th.

тытыр (разе 724).

North of Heleng a motocleat skimmed us through the "Gutes of the Rocky Mountains." Here a small dam has created a lakelike reach where the journals describe 5 % miles of gloomy claffs rising nearly 1,200 feet from the water's edge. The explorers had to travel after dark to reach a spot roomy enough for a camp. In the canyon Lewis I med nawhere to " rest the soal of his foot."

East of Montana's capital we watched menand machines at work on the Bureau of Retlamation's Canyon Ferry Dam. Near this new 22%-foot high concrete barrier arross the Mass ari, Sacazawea gave the cheering news that the three focks were not far away,

Clark, walking ahead, discovered the point where three rivers unite to form the Missourl, 2,4mb miles above its mouth. The captains munch these streams Jefferson, Madison, and Gallatin for the President and two

of his cabinet on where

is the one-street town of Three Forks. Mantana, we took rooms in Sucajawea Inn-Driving six rades to the river's three forks, we saw where the tributary streams wander in from a mountain-ringer valley, needs thear magndering waters under a great rock cliff, and create the Missiani (page 735).

Lewis Kills on Indian

What I saw at this birthplace of the Missouri brought me to a startled built. Eight Indians were creeping up on four white men aslery on the ground. The redskins rushed. The attacked men jumped up, guns are knives in hand. Protecting their horses, the whites killed two Indians

We had stumbled on a regnactment of the only fatul encounter between the expedition. and reducing. The fight, in which Rechepfields keifer one ha ian and Lewis shot attether, was being tehearsed for the Three Forks pageant, bused on episodes of the Lewis and Clark saga. Next evening, watching it from bleachers, we looked down on a drama whose stage was the site where many of the incidents took place (page 730).

Pageant day, the anniversary of the ex-

* See * Montana, Maning Weaplace Trenspressor," by Leo 3. Breat, Switzens Landarageen Marazine.

thee, in the National Georgenius Magazing "Labordor Canoe Adventure," by Ambrew Brown and Raigh Grav. I dy, 1951; "Down the Susquebanna by I'm a little to the little to Panner August, 1948, both to Rulch Grave



The Paparers Sauk Cances and Took to Hise at the Beaverhead's Forks in Montana

I property to the first and the section of the sect



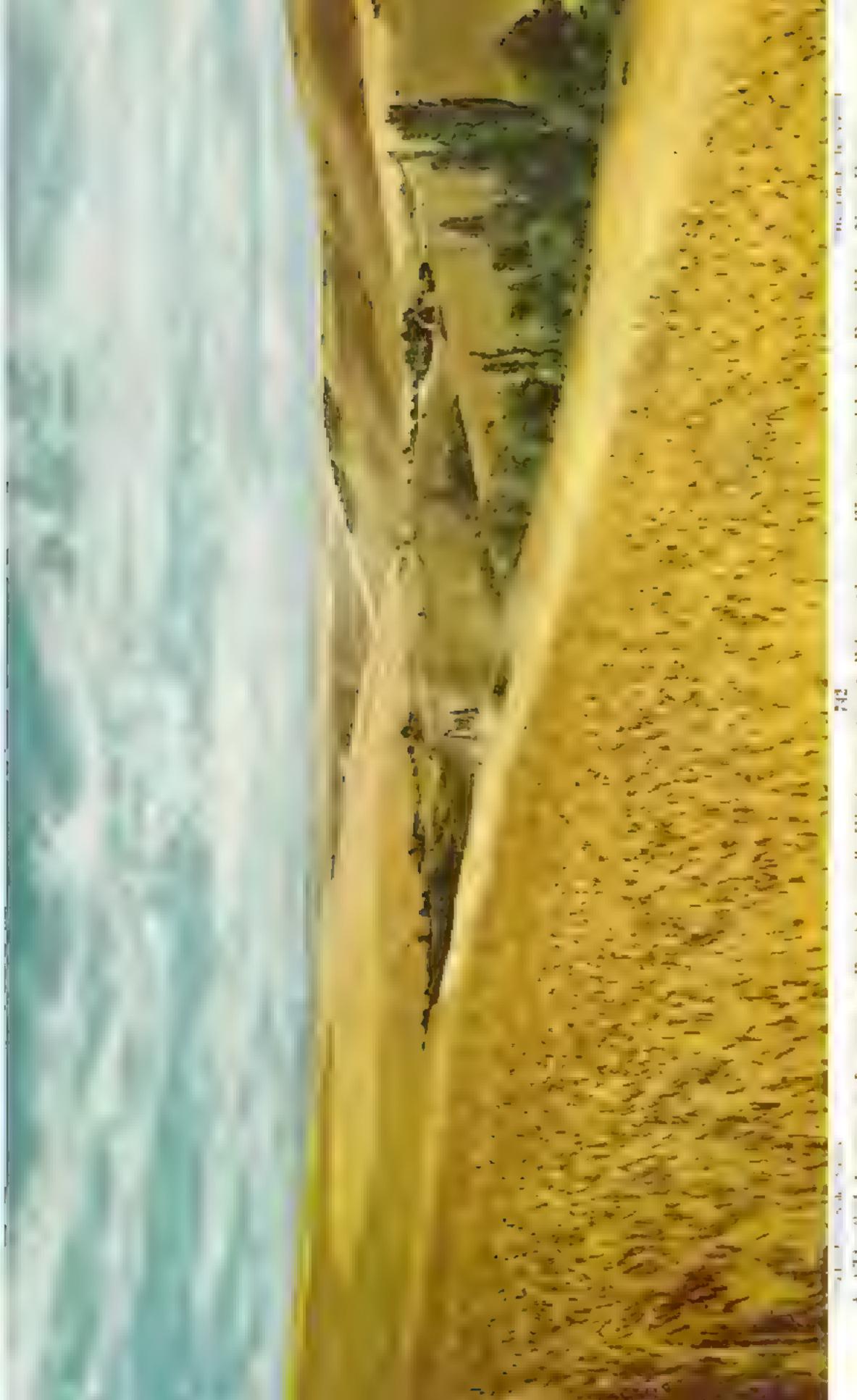
12, 1815 Round of the lass Webe broken a Sambon de Car hand Dolide Meridalan Latin



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A "Greate to France Of the Joy," Wrote Clark on Seeing To Pasific

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plorers' arrival in this area, was a big event in three Forks. Flathead Indians danced trage 7251. There was a parade in the morning and a codeo in the afternoon

Harley Fitzhugh, the podeo master, uperates a saddlery shop which Will and I visited. Will never let a chance pass for talking with real range riders. He saw enough high-heel boots, ten-gall-in lasts, and solver-spangled chaps on our trip to last a lifetime.

In Three Forks a restaurant cashler gave me four silver dollars in change. As I be ited the unaccustomed weight in my hand, I overbeard her remark, "Another Ensterner!"

We bit the trail again, moving west up the Jefferson River to its force, where the two captains decided the stream now called the Reaverhead was the correct route. We stopped beside a formation called Beaver-Lead Rock, which Sacagawea had recognized as a landmark on the trul to ber people,

Lewis and Clark were from in to meet the Shoshonis. Nearly half their second number was gone, and they had no norses for Crossing the mountains. The Indians were keeping out of sight, thinking this strange invasion a trick of the r Elackiest enemies

Food became scarce. In those days most game avoided the mountains and lived or the grassy plains. The rivers grew smaller and swifter. The men were exhibited from constant struggles with the can see

Lewis went ahead with only three ment, beging a show has friendly intentions. Leaving a note for a rendezvous at the Beaver head's looks, Lewis and his patrol walked west up these Prairie Creek. They became the first white Apericans to stand on the Continental Divide: August 12, 1805.

Pashing down the opening slope, the the coverer enjoyed his first taste of lauthe-bound water

In the valley beyond, Lewis at last found his Shoshonis. He have beads and gate to a few squaws. Then Chief Camealiwant and of armed warriors advanced toward him.

White Men Tired of Shovhoni Hug-

The white man learnessly put cown his ritle and waited about, holding the function than. Cameabwait, reassured, 'very affect usually' threw his arm over Lewis's shoulder and pressed his cheek against the stranger's.

Other brains followed suit; Lewis and his men "war all carresed and besneured with their grosse and paint till... heartily tired of the national bug."

Fine horses were all about. Now began the taklish or neaver of getting the fortuns across the timede to the raceting place with thack. One minute the impulsive redshins were for it the next they feared a trap. Lewis cajoled them into a "cheerfull tod gay" none, whereas " two butters ago they looked as sully as so many imps of sutturn."

The entire values followed Lewis Lack across the mountain. He spent an anxious night waiting for Clark and his party to reach the focks, but by noon, August 17, 1805, the expedition was rean ted. All its members experienced the Shoshood has of friendship.

Saragawea's first sight of the Indians sent her into a dance of joy. She sucked her fingers, a sign that among these people she had been suckled as a baby. A squaw came forward. Sacagawea recognized a playmate who had been captured with her by the Minnetances and later escaped.

Sacadawes Finds Her Brother

A council was arranged. Sacagewea translated. She saw Chief Cameabwait for the first time and, according to one account, burst into tears. She can to the Indian, throw ber blanket over him, and embraced him over and over Touth is stranger than faction: Came should was Sacagawea's brother

Though visitely moved by the receion with her people. Sacagawest had found a greater loyalty. She unbesitatingly chose to keep on with Lewis and Clark. The latter, especially, became fond of the "little squar": be called her "Janey" and referred to her papers, whom he called Pomp as "my little ducing how," "Fomp" was Shoshori for first burn male." According to alstorians. Clark named Pompeys Pillar, the remarkable formation on the Yellowstone River, for the haby (page 728).

fartering for borses began. Eventually the explorers acquired 29. The men cached their listed cannot against their return by sloking them with ricks in the river. Joyfully they started across the mountains.

Lewis calchasted his 31st hitthday at this tricouphent point by montily reflecting that he thad as yet slone but little, very little, inneed, to further the hapiness of the haman race, or to advance the information of the screening generation."

Before starting over the Continental Devidemy family and I drove our Shoshoni passenger to per hime on the Wind River Reservation in Wyoming

A tribul countil was in progress in a large wonden half when we attrived at Fort Wash-tkie, agency heady farters. Parked outside was an acre of late-model to tomobiles. Program, Buicks, and Lincolns among them. To-thy's Shoshouls are as well mounted as those leads and Clark found.

*See "no have of the Ent West " by Matthew W. Surbag. Nationals Glousspiele Michelle, Bertany, 1982.

Within a mile of her home Alberta showed as the reputed grave of beengawea (page 741). Then we hade the Wyoming princess a softye and tarned task to Montana and the Lewis and Clark trait. The children and I paddled over the spot where the I nekskin-chil explorers sink their disjoint cances (page 739).

At Armstead we left Montana's major high-way system and arove west on narrowing roads through Horse Prairie Valley and Trail Creek Valley. We care ed that night in Lenchi Passon the great Bitternot Range, heside the spring which Lewis and Clark regarded as the uttermost source of the Missouri (page 715).

Crossing the Great Divide

Next numering we stord on the very crest of the Great Divide (page 740) and marveled at the mase of mountains surrounding us

Between Lendt Pass and the Lacine Lewis and Clark were outside the units of the United States of that time. Their exploration of the Chegon country helped solidify America's claim to a me man's land that later became I taho, Washington, and Oregon.

The regged terrain along the Salmon River inteed the expedition to detour north and structed across the Bitterroots again. Near present-day Missoula, Montana, the captains and their weary men recuperated in a camp

they called "Traveller's Rest."

Pushing on westward, the explorers climbed the Bitterroot Range for the third time and entered Lolo wilderness. Indians told them that a faint trail led to the nasignale Clearwater, but warned that others had 'enthered excessively with hunger... being obliged to subsist for many days on berries alone as there was no game in that part of the mountains which were broken rockey and so thickly ered with thmost that they could startely

his sell in was the most directly of the circ to a besterolar show covered the slopes and threatened to freeze moccasined feet. As the Indians predicted, there was no same. Flour and other fundations gave out. The men killed a colt and ate it. Crayfish, bear's oil, and candles were consumed. Indian dog became a staple of diet by the lower lands.

This wild fidal oupland has seen little change share Lewis and Clark's day. We discovered that forcing passage through the stubbornly resisting forests and engage at II was

in adventure in the 20th century.

We followed the Lord Trail, a one-way lorest road that afternately tunnels through groves of evergreens and skirts the brink of yawning chasties. One stret b, between Powell Ranger Station and Pierre, Idaho, presents 100 tolles without a gas pump, a home, a

forester's station, or any vessige of clydication

except the rough roadbed

So much of the made is up and down that is ally we were in second or low gear; we averaged 10 miles an hour. After five notes the tocky going ruined one tire. We charmer the additional 95 miles without a spare

We made it, but early next marning, niter traveling only 13 miles on a hard-satfaced highway, another tire blew out from the heat-

ng it had taken.

A new highway, being built along the Lochsa-River, will one day make such adventurous

motoring to cerestary.

Dropping into the gorge of the Clearwater River, we followed that beautiful stream to Campe Campe tpage 741). There Lewis and Clark's men, nearly starved, sick, and now as tired of land travel as they had been of river voyaging, built nive dugout cames for the last lap to the Pacific

As their strength returned, they for nevequates and danced to the lively strains of a fieldle. Curveus New Petré Indians gathered around and watched the caller "bass other name how to do funcy dance and sing songs, and ad laught — still a pretty good de-

stription of a square dance.

Throughout the trip, the men eften dained another agovernent was watching the reaction of each new group of Indians when they spotted York. Clark's Negro servant. At least once, a redskin wet a figger and tries to rub the blackness off. York often demonstrated his tremendous strength and allower be attaced Indians to believe he was a will amount caught and tamed by Clark. It was this medicion."

By October 7 the dugouts were ready Lewis and Clark pushed off down the river, famous today for its spring log drive.

Canceing in the Explorers' Wake

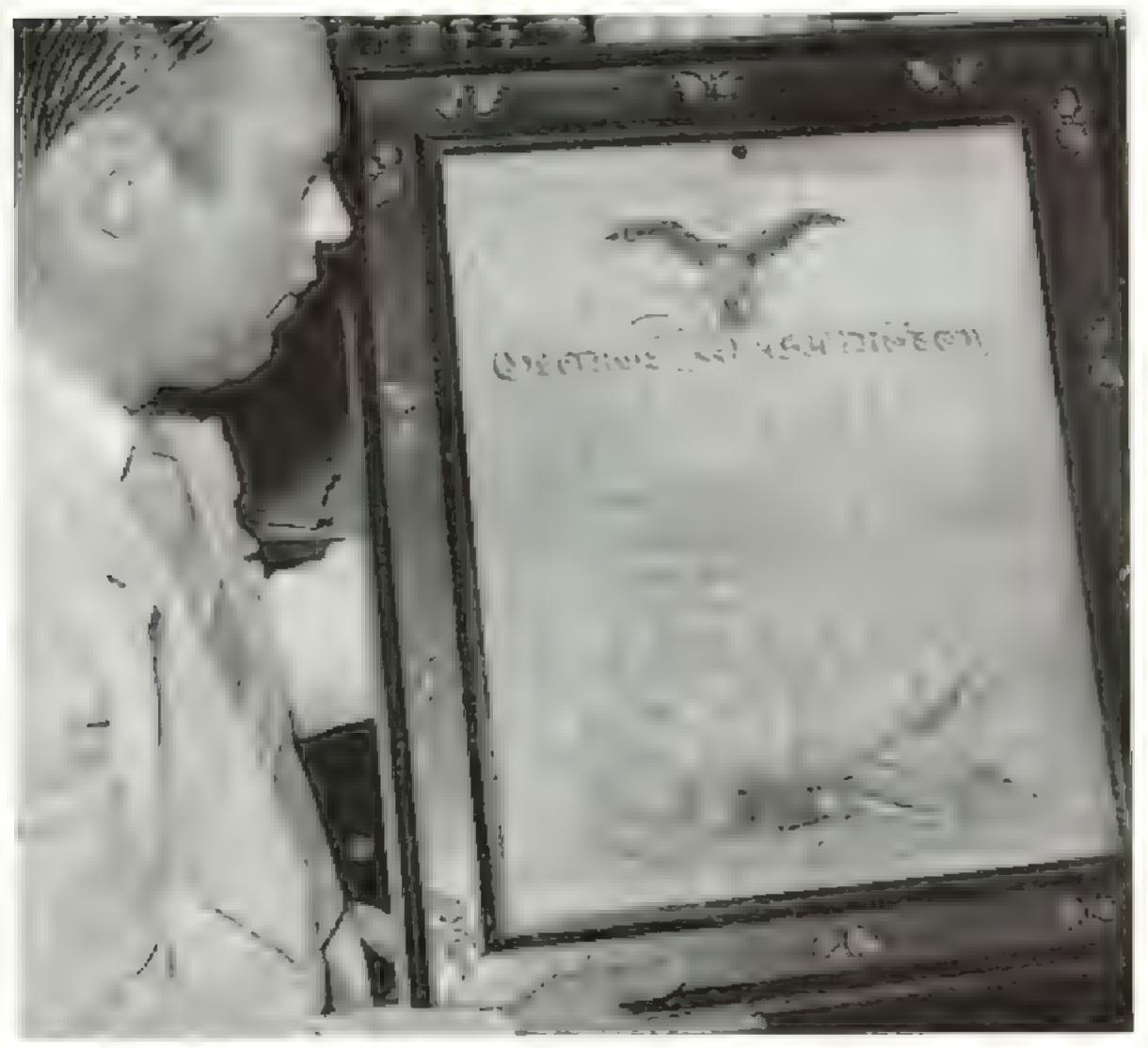
I, too, canced the swift Clearwater—from Canbe Camp almost to the explorers' second might stop below. In Trout's steen rode Tom Kiskila of Orofina, blatto, one of the region's most experiented between and riverses.

Without difficulty we shot the many capids mentioned in the journals, but supped short of one at Spalding, Idaho. There a Lewis and Clark diagont struck a rock and senk.

As we padated, Torr told me about working as a double for Buddy Baer in the movie, "The Big Say" fle learned how to have te a kerboat of the type Lewis and Clara used on the Missouri (page 719). Asteria's Shoshoni menfolk were extras in the same movie.

At Spalding we visited the Indian museum

^{*} See "Inaho Losgers Battle a River. by Roes Halland J. M. Rettler, National Giognaphy. 32. July, 1981.



William G. Clark, Jr. Daplace His Great-great-grandfather's First Army Commission.

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In November 2, 1805, the footbals noted by the cose about nine linkers. The improvement. Merivether Lewis because reside the latomac estuary at the "President's House" in Washington, D. C., now had taken him from Atlantic to Pacific tidewaters. He was the first An erican to cross the continent

Hardships Before Joy

But the end was not yet. The preat Columbia estuary, reaching inland toward present day Fortland, Oreem, presented its explicit swith the bublements of big water and bud weather. Hardsnips compounded for them before they attained the Panife proper, where

the form the second of the following the second of the sec

Note present a factory Organ 11 of Innin a hit relief and Fully First Clark, for the for the range of the same of

Through rain and wind the intrepol menpushed on. One wretched November day the fig cleared. The Columbia actual in a subwidened into a great hav. William a subexpressed the clation of the entire ex-

For its, the skies not only cleared as we can be the Prince of the median terms of the the second of the control of the light (page 746). Since on to shift up to made the plants of the new of the plants of the new of the plants of the new of the plants.

New National Geographic Map Marks the 150th Anniversary of the Louisiana Purchase ma

BY EVELYN PETERSEN AND WELLMAN CHAMBERLIN

IIIIs is the noldest work of ear whole live to IRO of R to 2 for the suggest the foodsiang Parchase treaty of cession on May 2, 1803.

"From this day," he continued prophetically, "the United States take their place

among the powers of the first rank."

In bonor of the 150th anniversary of that most momentous real-estate deal in history, the National Geographic Society presents its members all over the world with a large 10color Historical Map of the United States.

More than 2.185.000 copies of this map, a special supplement to the June National Geographic Magazine, have rolled from the big lithographic presses. It is particle assette largest—and pleasantest project ever undertaken by The Society's cartographers in a 155 years of mapping the partic.

Here, compressed into 912 notes on one lost to highly readable sheet of paper 41 los 27. Thes, is the story of bow our Nation to the wife to the story of how our Nation glory which even the obtefunst reaches of Livingston's imagination could havely have encompassed

Smaller maps in color, largely reconstructed from centuries-old charts of enduring historical value, supplement this graphic picture of the

growth of a nature (pages 750-769).

Named for a Man Who Never Saw It

As members unfold the large 10-roler map and run their eyes south to the Mississippi River Delta, they will find the first reference to the Lauisana Territory: a note citing the arrival of the explorer La Salle in 1:82. He gave the whole central area of what is now the United States the name "Louisiana," for his King, and claimed it for France.

The French, however, suffered heavy finantial losses in trying to colonize the area and happily certed it to Spain in 1762. Later, in 1800, Spain passed it back to France again in the Treaty of San Ddeforso. Though the treaty was secret, rumors of it trickled to

America.

To find out if these reports were tone became a primary task of Robert Livingston, whom President Jefferson dispatched as his Maister to Paris. As the first Chancellor of New York State Livingston had sworn in President Washington. He now had the mission of protecting his country's interest in the mouth of the Mississippi. The matter was vital, for through New Orleans passed the

produce of three-eighths of the new Nation's territory.

In neston reached France just in time to Napoleon's brother-in-law Leclerc set sall for Santa Domingo to quell the native revolt there. He also learned that it was true Napoleon had acquired Louisiana and intended to occupy it.

This news so alumed Jefferson that he interested war. "The day that France takes possession of New Orleans," he wrote Livingston, "we must marry ourselves to the British.

ket and nation."

later, however, when the Spanish Intendant at New Orleans closed the port to Americans. The western States went wild and demanded war. But the long, gangling President restrained them, "Peare," as he said later, "is out plusion."

To prove it he selected James Months at was equality popular with the West, to you I a ugston in Paris and try to buy New Orleans and the Floridas. At the least, the two coveys were instructed, they were to se-

cure the use of a port

Napoleon Changes His Mind

At the same time Mouree was appointed, Napoleon learned in Paris that Leclerc had followed almost his entire army to the grave fullowed almost his entire army to the grave funto Parningo. Flaving lost the voluntile land, the heart of his colonial system, Napoleon now saw Lomeiana as a lightity. To add to his troubles, he also faced war with England; and he peeded money.

I to Mone by following Easter, April 10, 1301, found Lacingston still hazd at work on the French at I still unaware of Vapoleon's change of mind. He went again, as was he habit, to ask Talley rand if France would self-

New Orleans and West Florida

In s time, however, when he put the usual question he get the shock of his life. For the usually tacitum Talegran! It med and asked: 'What will you give for the whole?"

Two days later, after Maproe had arrived be and Livingston were entertaining at dinner when they spied Count François Bas in Marbons, Napoleon's finance minister, through the window, strolling in the garden. They invited him to jon them for coffee. Later that night, when they were alone, Farbe-

*See "New Orleans Janshalaya on the Levee," by Harnett T. Kare, National Georgeanic Managing, Johnney, 1953.



A Cartographer Sushes the Most Important Map of Early United States History

Chief I have grown by an attalementate from the Same Court of the cour Corporated 1766 Matchell hard of the Bestern on a few corporation in North Agreement to the design of the Control of the Contr the grade or to be mid with the accompanion of a provider will address to take a factor of I raphy as known at the restrict of the second of the seco

Mark and Livingston all but settled the 1 . 1 2 1 1 1 1 1 1 1 1 1

that getting a most all that a none his pergramma throughout our serviced off a and the state of t It was there o'clock, he same, but it was . very important that you sould be ap-1 - 42 11 11 11 12 12 25 21 11 18 at 15 15 15 15 15 15 15 ger ha he Mr Mb army has been or arted. . We shall do all we can to cheapen be parchase; but my present sentiment is that we shall buy,

Lyngston and Monroe had neither the a shortly nor the money needed to close such a deal. The brough, for their past rid not lating the exact barders of the purchase in either sales to k or contract, in fact, they had not even taken possession of the land

Nevertheless, on May 2, Manroe recorded in has mere as it "we actually somed the treaty . or the breach language." The papers in far fall were signed later, and all were hask dated to April 30, the day the Americans'

final ofter had been presented to Napoleon For \$15,000,000 Livingston and Manroe had taken on a piece of land which coulded

the size of the Nution and which within years was worth 500 times that prace

Cost Less Than One Destroyer

One of earth's richest starehouses of foodstuffs, fuct, and power, the are contrally was carved into see whole State --- As one is, Missouri, Iowa, Nebraska, Oklahoma, Kansas -and parts of 11 others: North and South Dainta Mentage Wyonne, Colorada, New Maxica Marriera Messeria, Makana, Taxas and Larse a race rat, on supple ment mant

Phough \$15,000,000 would not buy one destroyer today, the sum was more than double the \$7,000,000 it cost to run the entire government in 1800, including support of the Army and Navy. Congress, however, quickly . proved the purchase at a special session

There were some protests in America, but

own family. When the Emperor's brackers, Lacien and Joseph, stormed in to upbraid turn, they found him in a bath scented with coulde cologre. The angrier the tures Bonapartes became, the louder they shouted

Shower of Perfume, Flood of Gumbo

Finally Supoteon rose in the tub and threw himself back with a splish, showering his brothers with the perfumed water. The figuation of hughed, but the valet fel, to the floor in a faint.

Peters the United States could take over their new land, the French first had to complete the cession from Spain. Thus, on November 30 1803, the French took command from the Spanish in New Orleans, after which they strained to out-free each other with banquets that started with a selection of 24 kinds of gumba and sugged on through 50 courses.

The transfer from the French to the Americans 20 days later went as smoothly as the first, except that the Scars and Stripes got thack on its way up the mast. When the due reached the top, however, it waves triumphantly and the Place d'Armes reverberated with the thurder of capian.

Long before the Stars and Stripes dew over the new territory. President Jesterson had interested Capt. Meriwether Lewis, his private secretary, in an expedition to expore the tacknown land west form the Mississippi, up the Misson ri and down the Columbia to the Pacific. That journey is described in Ralph Gray's article, "Following the Trail of Lewis and Clark" starting on page 707 of this issue,

Members themselves can retrivel the trail, just as Mr. Gray did, with the help of their new map and the National Geographic Society's 1951 map of the United States. The 1951 map shows more than 11,000 place names, all of which obviously come not be squeezed into the new historical map. The two maps team perfectly because they are drawn on the same scale.

In addition to the path of Lewis and Clark, note other routes of explication and the four angler emigrant trails to the West have also been traced on the map. Members will find them listed along the right border, with the symbols used for showing their routes.

Materists Speed Over Explorers' Routes

Since a good portion of each fonce can now be traversed by hadrony, and since major bichways are shown on the map, members can pick vocation routes to suit their tastes in explorers. A ride on Route of across the Mojave Desert, for example, closely approximates the route of for trapper jedecials Smith, the first American known to have crossed over-

Lind into California. On his return he also become the first white man to cross the high Sierras and the Nevada-Utah desert.

A motorist who skims over that desert today might find it hard to believe that in the vicinity of modern Route 50 Jedeciah nearly standaed to his death only 126 years ago. Burning with thirst he dreamed of brooks and cooling casuales. But he struggled on with his little group

At night one of his men, Robert Evans, lay down to die. The rest of the desperate party could do nothing but leave him and stager on, hoping to find water.

Three miles beyond they did find it. Smith drank his fill, then dipped a kettle into the spring and ran back to Evans. He found him arely a de to outable and harriedly lifted the kettle to his friend's swallen lips.

Evans drank and drank, never stopping till he had drank the last drop of four quarted water. Then he looked up at Jederlinh and asked him why he hadn't brought more.

Many historia is have overlooked Jederlich Smith because his journals were destroyed a fires. Records of most of the other translaters have been better preserved. But explorers and writers can turn out book after fascinating book without ever pletting an exact course of travel

In areas where the precise toute is not in dicated by the explorer's own accounts. The Society's carpographers have used the best possible judgment in the light of the most scholarly and reliable investigations.

A Gunt Historical Project

To draw these routes and write the 912 laster cal unies, 17 members of the cartographic staff have worked in total 7764 hours. Clief cartographer James M. Dorley and the co-author, staff cartographer Wellman Chamberlin, pored over bistory books for 10 months.

For the cartingraphers, the most amusing historical fact they found, and only recorded in a note in the lower right inset at Killingworth, Connect.cut—was the one about Aber

"Members may obtain a hitlorial copies of these maps of the Lanted States land of a lastandard maps put listers by The Society I by writing to the Nanoual Lances of States and exempers, the each on paper. St on labels, Index, 3rd. Greatly entended of two (67 x 41), import of both the Eilstesical Map of the United States and the 19rd map, The United States of Annoise, are also available on heavy thart paper, tree, 51 each. All femilians as possible in 17.5 tamp. Thestpaid.

t Missibers who desire there bilanuation on an ploration in the Southwest than could be given in this map should be tradit their copies of the National Geographic Society map, Southwestern I rated States, a surspense to the June, 1940. Natural Gas-

contemit. Managore and more out of print

to the doubled in cart graphy and comber to Baell, who engineed the first map of America after the Treaty of Party 1783, also aftered 3 shifting notes for which in

served time in Jall.

To accommodate the multipline of place names and notes in the chimical hast, the castern scalarity has been enlarged in two risets. One covers the area north from Philadelphia and the other the section south to Alternatic Sound. Though the scale of the main map is a generous 78.9 miles to the inch, these two insets enlarge the areas 3% times.

Colors and Dates Record Expansion.

A third inset shows bow the United States grow from the original Colonies to its present size. Each addition is differently colored so that the stary can be grasped at a glance. State Lorders, marked off with dotted lines include within them the date when the State entered the Union

One purchase mentioned on the map but not in the inset is the requisition of Man-battan Island. Peter Minuit, as everyone knows, bought the beautiful wooded island from the Canarsia ludians for about \$24 worth of trickets. But as in the case of the Louisiana Purchase, the sellers really dien't own the land. The true owners, the Manhatoes,

later had to be paid.

People commonly fix the start of American history at the time of Crambus's landing at Sin Salvador in 1492. But several of the map's notes antedate (se one on Calumous, California's Sierra remoteds (Segmois eigenstea), for example, are noted as the "world's dlatance of the "Minnesota Man" at Pelasa Rapids says they are 20,000 years old, and the kensington Rapestone in the same State may be evidence of a 14th-century visit by Norsemen.

From these vague beginnings the notes move through time, down to a reference to the hormood hame of President Eisenbower (Alifope, Kansas). At Julion, Missouri, there is a memo on Prime Minister Churchill's 'Iron Curtain' speech. And on Kentucky are the hittliplaces of the Presidents of the Union and the Confederacy, Abraham Lincoln and Jefferson Davis. They were born only and months and 100 miles apart.

The first atombrain test is in ted near the Civil War buttlefield of Valvende, New Mexico. Through this State passed the Combright I owing Trail. No lover's lane, it was a cattle trail blazed by Charles Georgiaint and Oliver

Loving.

In the pages following (756-769), six famous old maps, plus two modern maps of historic interest, help totald out the picture

of the making of America. Most have been redrawn by Charles E. Red blood and William Pulmstrom, staff cartographers (pages 752 and 755).

Though they relettered place names to make them easier to read, the cartingaphers faithfully reproduced the spelanus as they orlandly appeared. This explains obvious spelling errors like "Wahache Raver" (for Walsish River) and "River Missisipl" on the Mitchell map (pages 753-759)

All but two of the maps are presented in feur colors. For maximum clarity they have been printed by line reproduction rather than

halftene.

This requires much more time and effort Color separations for bulttene are done in minutes by camera. But for line they are done put ently and sucticulously by hand, a separate drawing for each color. The result is the same clarity of color found on the large supplement map, which is littour applied.

Considering that it was drawn about 1600, the first map looks surprisingly like the North America that we know today. It is part of a world map, unsigned and undated but called the Me incaux Wright chart after two English map teakers who did most of the work reflected in it. Elward Wright is believed to have compiled it from an earlier plote by Emeric Molineaux with the assistance of geographers John Davis and Richard Haklayt

National Geographic map makers those it to show the extent of knowledge about the New World at that time, and also to plot on it the routes of the explorers who had nathered that knowledge (pages 756, 757).

Columbus Missed U. S. Mainland

Columbus, the first to stumble on the New Word in his year h for the Indies, did not touch the United States. John Callot actually was the first to benefit our eastern shores, unless Norsemen preceded him by 500 years.

The Mitchell map, second in the senes, is a kind of birth certificate for the United States (pages 758-759). The master map on which both British and Americans plunned their maneuvers in the Revolt tomary War, it also was the map on which their peace regulators defined the boundaries of the original United States. It remained the test map of the new Nation until it was succeeded by the Arrow-smith map (page 769).

('a) t. John Smith, who saved the Infant Intrestown colony in Virginia, also unde the "mother map" of that area, the original one to which all subsequent maps over sumething

of their Bacage (pages 700, 761).

The stories about John Smith and Pocahoptus have so overshadowed the accounts



A Sharp Pen and an Artist's Eve Decise of Map's Ormersental Scroll

When I is not not the construction of the stack to the

of his temp reaking that it may surprise some people to know that Smath also created a valuable map of New England, the first good map of that area in English (see 'F made of New Logland,' beginning on page 803 of the or that map appears of a strong or page 100 or the National Geographic is or and the real tree landances of the Filter at the landances of the landances of

Swift Growth Wide Man Olanders

The plant The North West of the North Market of the Land of the La

Less than 10 years after this man was binde towas obsolete. By then email as was areaning also a all the major to be a correct tracial bistory on every use this on one Within the recade the sur-a

nation bureeoned direct to its full measure size, acquiring even made time than it has a come by the Louisian Line base.

Apply the United State in the first term of the United State in the first term of th

Last in the series is the Arrowsmith map which replaced the Mitchell uran as the most reliable partate of the country in 1795. On it has been also as each of the country in 1795 on it will be that had been a latter that for the last had been as the representation upon 7 and 8 meets as the representation that has been also for meeting the promulence was personally or meeting to the bottom between that has the second of the last had been as for an expense. As the photom



America in the Discovery Age: the Molineaux-Wright Chart

ALTHOUGH many of its features appear addly distarted in the light of modern knowledge, the Molineaux-Wright clarit (opposite page), published in England about 1600, was one of the most important maps of all time. It summed up what knowledges know by their clerations bear World.

Named for Emeric Molocaux and Edward Wright, the most probable authors, the chart was the first to use Weight's definitive remains of the Mexister map projection, cornerstone of modern pavigation. The National Leographic Society's cartagraphers have redrawn the map so that it can be easily test a what added new lines to the face of the glace.

Scholars believe Shakespeare had the Mulineaex-Wright map in mind when he wrote in Twelfth Night: "He does smale his face into coore lines than is in the new map, wit the augmentation of the fractes."

Seeking Asia, They Found America

The New World was discovered susewhat in the manner of a sleepwader who, venturing out of bed, stubs his toe and confronts an obstacle alien to his rectin world. The explorers dreamed of finding an easy water confe to China and India—and the spices, silks, are gens that rarayancets had carried overland for centuries before. But what they found instead was America.

Christopher Columbia, if the traditional tale is true, reached Partugal, the center of recapic discovery, by a linky chance. He was washed ashare after a sea fight a, 1470. Then he married into maps, According of a latential formula waters without mother and a latential fortune swifed when become and backets of Spain agreed to spansor his managery voyage after thrice rejecting it

In the balf-light of dawn, August 5, 1442, Colombus set call from Pales de la France Spain. Ten weeks passed before a lookout not "Force" Torred" Uning ashore in the Bahamas, the Admiral embraced the earth and named the land San Salvagor

the bis third voyage he discovered the mouth of the Orinocc and wrote to my royal sponsors, "I am convinced that this is mainland, very large, to known heretokere, . . ."

In 1497 John Cabot persuaded Bristol metchants to uncerwrite an adventure to the Orient. Sailing west, he appears to have coasted Nova Scotia from Cape Breton 1sland to Cape Sable, perhaps reaching Manne On his return be sighted Nowfoundland.

For the Putagoese Gaspar Corte Real trached Greenland (1500) and Newfoundland (1501), places beauved to have been known to Norsenses like Leif Erksen 500 years earlier

Govanni da Verrazono, o fostentine captran, was the aest (1524) to visit New York Holes of the Arbita shore of the future United States, but some historians decredited his account. In 1969, just as Italian Americans were preparing to erect a statue to him, vindicating proof turned up in Rome: a previously ampublished version of Verrazono's letter to King Francis I of France, The explorer reporter that, seeking Ca hay, we had seen a new world "target than our Larope and Africa and almost Asia

Although many people refused to believe Vernacum, cartographies long accepted the counterfeit of Nicolà Zeno, a Venetian, who published a map la seled the work of an anterestor. My third Freisland, here shown so the cast of Gronlande (Greenland), existed only in Zeno's imagination.

"Cold Estation I," which Million referred to in Paradice Lord, appears to have been an equally fabilious "discovery" by Indich fishermen bet to Columbus's voyages.

First many took a long time to give up the in a of forcing a westward passage to the in a - Blocked to the south, they nosed into the solution to for a Northwest Passage.

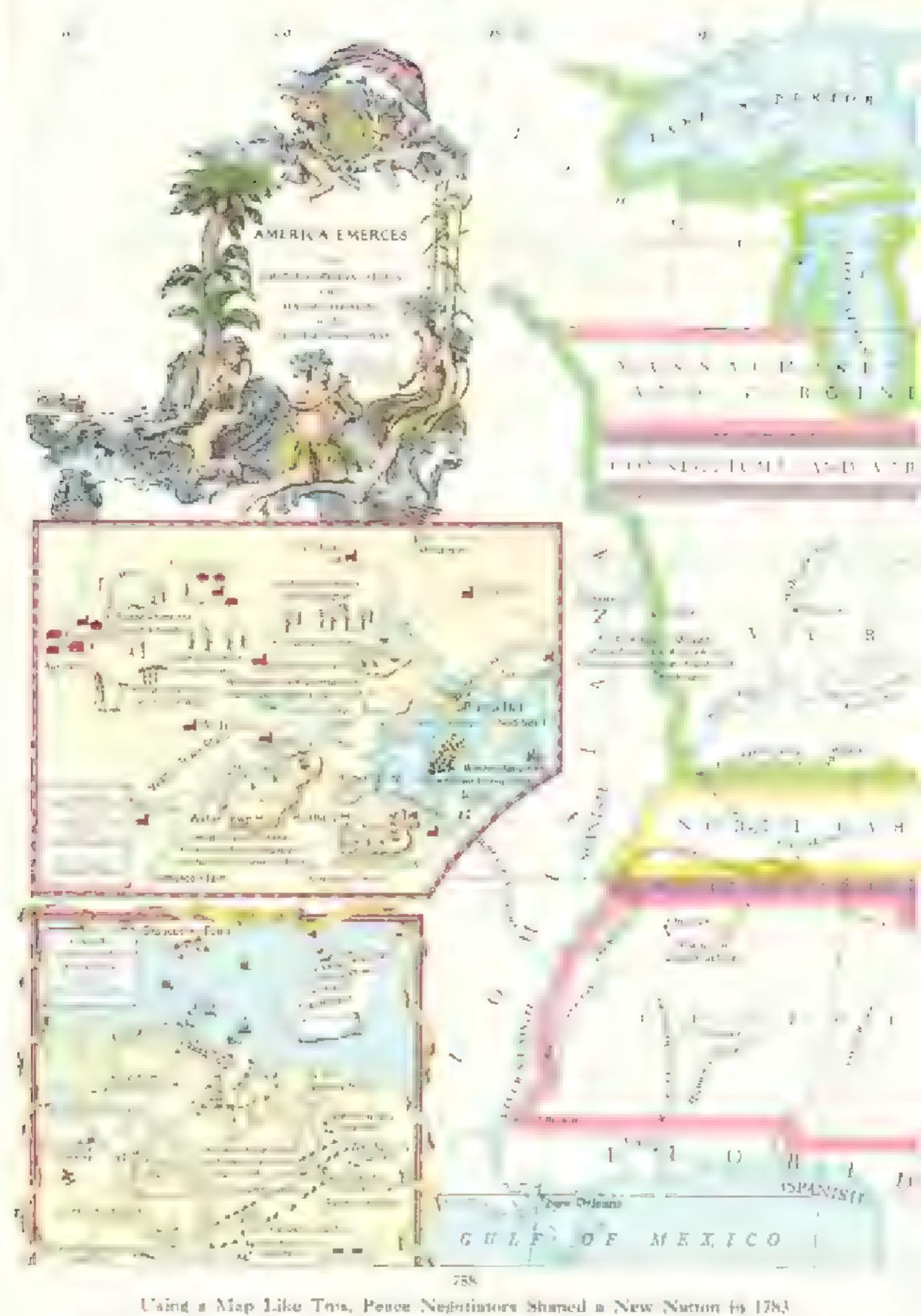
Jacques Cartiet in 1534 sailed into the Gud of St. Lawrence and claimed half a continent for France. Returning the next year, he explored the St. Lawrence River to the Laching of Lina | Rapir's and also christened Mount Royal, from which Mounted takes its name. He learned of the fresh-water sea. Lake Fluron, shown here as the Lake of Tadousac

Probisher Found Fool's God

Se Viartin Erolos art's search for a Northin 1 1976 resulted in a pold rash. Mark the verting Bullin Island's Frohisher the explorer remarked to Lordon with the explorer remarked to Lordon with the which was fabely analyzed as gold-filled, subsequent expectations proved his bay no passage to the Orient, his fools gold good only for mending roads

descourses on test gold. Hernanda Cortes, conquering Mexico, lo sted a fortune in gold and emeralds from Montezona. The same year Alorso de Pineda skirted the Golf of Nevico's porth coast. Parillo de Navvaer saw the nauta of the Massissippi, but did not two to tell the story. Cohera de Vara, one of the sarviv as of the Norvaez purty, wandered on to Mexico City.

Then came Harmondo de Sous with his ban I of horsemen, brillintly bederked, armen to conquer a king. They marched inhard from Horida. For years they dragged through ungles, forests, and swamps, looking for The treasure they found was the Mission of River.



the Matchells chart upon which this map is bested, was published by London in 755. It was used for the Parish first, which delinested brusties of the time United States. Insets above Recolors named the theaters.

Half p Dozen Scaleard States Claimed Lands to the Mississippi-

traps across New York and the Creat Lakes Arezinia in 1761 made the first office to reiniquely claim.

Capt. John Smith's Map of Virginia

ders When peace ended that advantage, he went home and comped in a pasture with his funce, guns, and comped in a pasture with his funce, guns, and a copy of Machiavell's list of Hist.

The Apprintance of the stain. The Yorks of the Stain State, he was also see that the stain. The Yorks of the stain, the Yorks of the stain, the Yorks of the stain of social and the stain of social stains are a stain of the period of the stain of stain of the stain

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Amere 24 years with benith went brone to not started in the Lindon Company, he sailed with 140-only with the part of page 7564.

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Nive days after the sett ers fourt of "James-

hrs.——' (Mr. !! — 'q tru St. b — truft to truft a straft to the Pacific, the "East India Sea." Instead as charactered the "Powhalm" (James) River falls at the fatter Richmond, Varabila.

they were farced to the land of the station to a plant of were farced to their chain ration to a pin of words-cated grain helded in water, plant a necessarial bit of fish, Wrote one cal nast: "Our drinks was water, our bottstays, castless in the sit

Caption Smith tanget there to build brown in the reserved of south the reserved of the reserved brown the to save the lates of the reserved to

Such was searching for the scatter of the Albert Cold. See wire to tell insertion of the cold of the c

the three were raising their clubs in the case of the "Partitional" (Yierk) River. His bis security their clubs to orthological their clubs to orthological their clubs to orthological the little of the contribution of the cont

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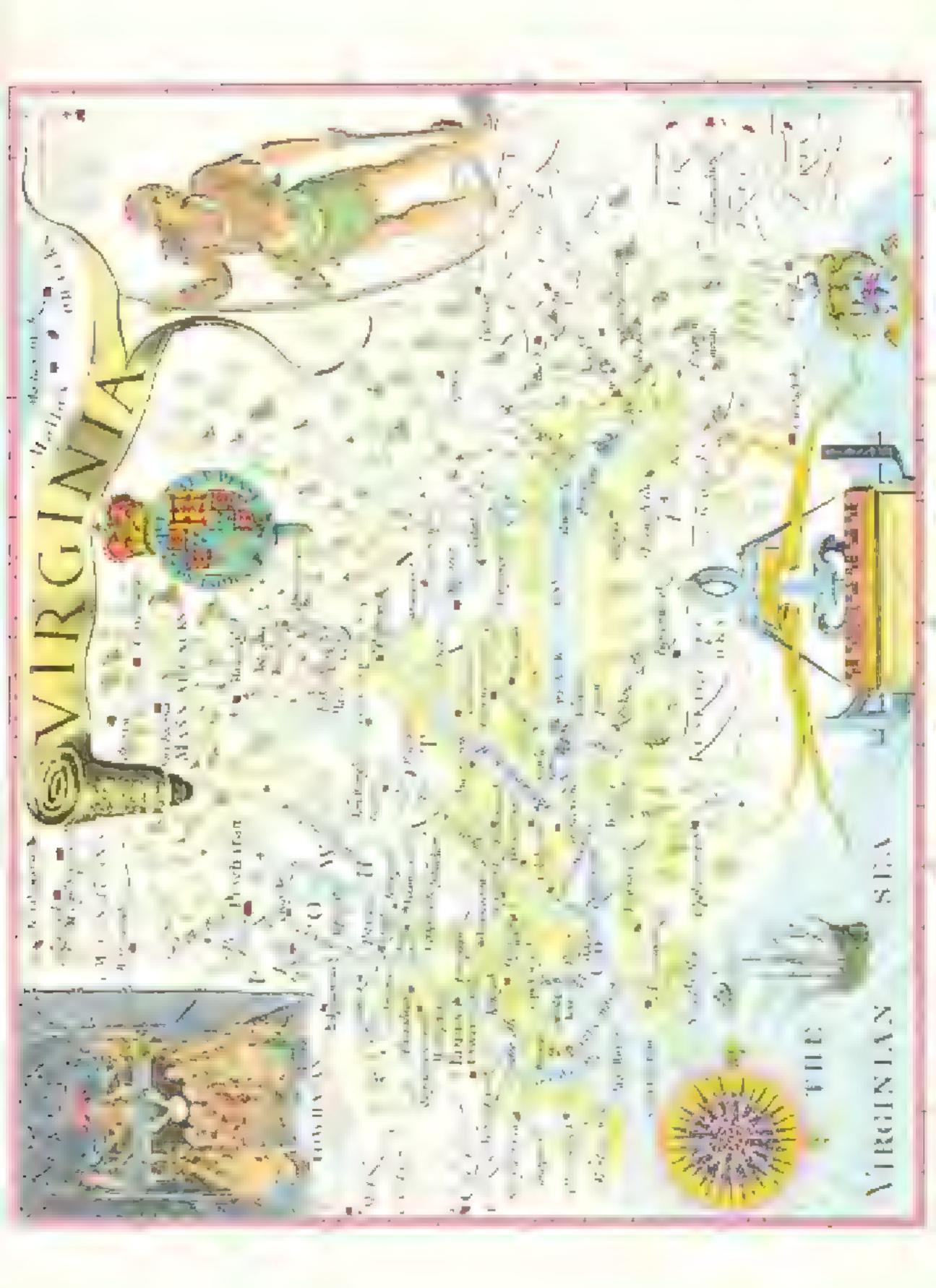
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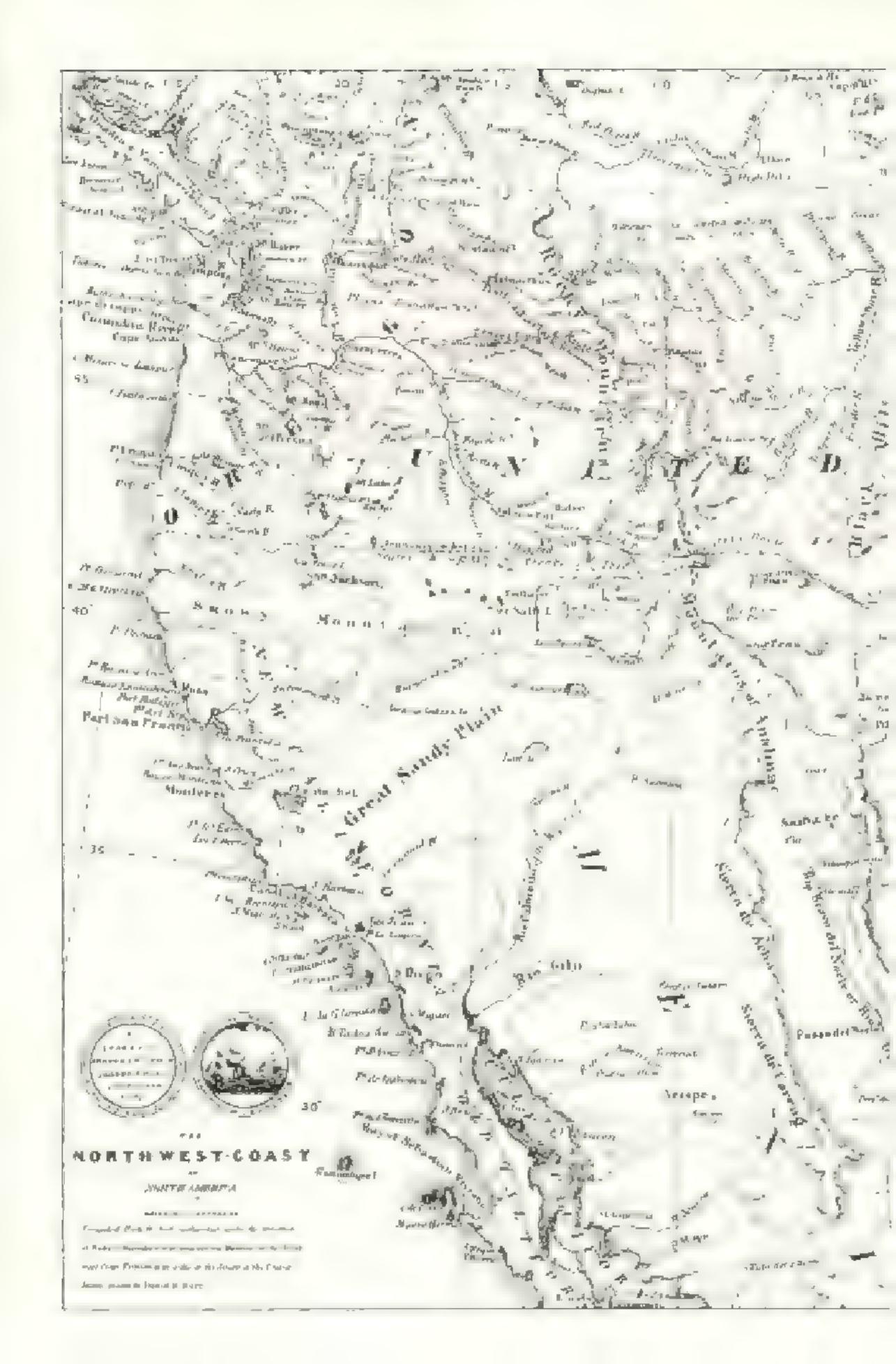
or housed plates, For 30 years the chart ranked
as the "meriber map" of Virgina. This represent house solution.

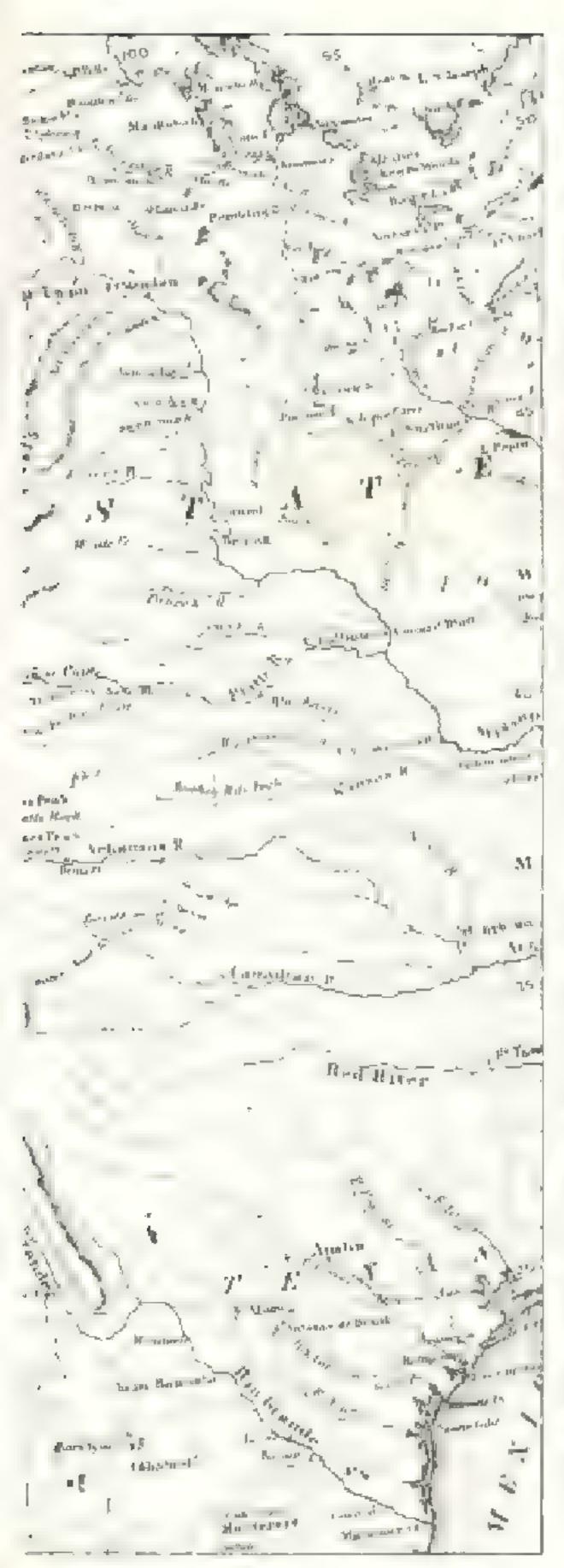
Sandy top the state of the stat

Shortly niter faciling his map, Swith Invanie president of the Janustown commit. Then a runper of the Janustown commit. Then a runper of the Janustown commit. Then a runper of the Louising.

Without Sufficient the colony felt apart. Surpr 40 absorbers the said for English when they had Warr first three of Virginia, and "Poynt complete". The happy sight of reminerations and fresh supplies and them back.







The Opening of the American West: Burr's 1840 Map

NLY a let le spore than a century ago, whet. Dayne th Burratew has man for the United States Sendte Committee on the Cocaton Territory, he was not always sure what he was daing so vague was the knowledge of some rivers,

minut lying and deserts

The fur trappers—bearded sharpy mountain then -blazed many a rail through the Rockles, but few left written records. They were busy enough. They fought grizzly bears with knows, matched the Innans' wilderness thill, and branced and roi tered at their antitual lattiburges. Scarching for beaver pulse, Lucy trod andorn valiets and actioned the headwaters of mighty givers

One of those men was Jederhan Smith, the first known American to lead a party everland into Memcan California. Called the pacitimeet of grathhow to be the term of the contract to the contract to On his return to much the first consing of the high Sierra Nevada (probably near the beadwaters of the Stanishase) and desh crossed the Basin Region to Bear Lake (Trout Lake)

Most historians have overlooked Smith because his journals were lost, but map maker Hurr much have known has works because he drew u Smiths kiver and the Inconstant (the Mojave), both in California, and the Adams (the Vagan),

a Colorada kaver tributary:

Burr ignored the proneer work of Joseph R. covered the Yesemite Valley and brought has kither pret description of the Sterry reduceds. He similarly shelited Walker Pass and Walker Lake.

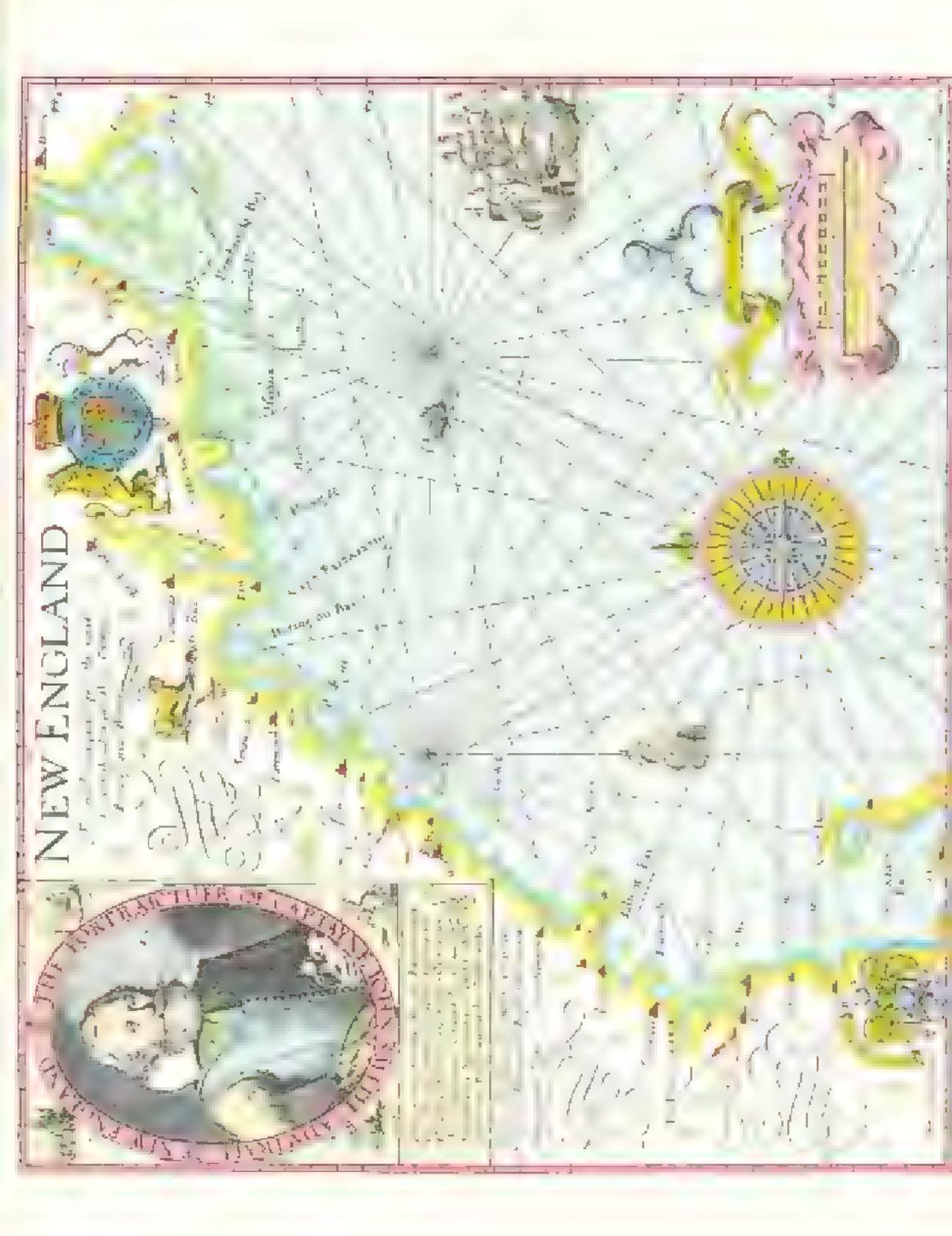
Notion Was Swiftly Expanding Westward

When Burt's nuap was crawn, Great Return and the United States were at odds over the Oregon fron ter. The covered-wagon properts, who started streaming into the Northwest in 1942, classified for a bound by set lement tayorable to the United States. James Polk compaigned for the Presidency in 1844 caving "Fiftyfour forty or hight? a distree of littleuce that would have pushed American chasis to the Alaska mandaev, but piter when the British refused to sadec, Polk is introduced on the 49th parallel,

Meanwhile, Texas, having wan in independence from Mexico in 1830, priced the United States. w annexation in 1845 an act which beloed touch off war with Mexico. The United States' quick y ctury added ad of Calliarum, Chan and Nevada most of Anzen , and parts of New Memon,

Cultrado, and Wyamme in 1849.

Thus, cleht years after Burr drew his map, the Nation had grown atmost to its present size Unly the Gurboen Parchase (manifed for the American a guarantee remained to be ad ed in 513. Spattern sympathizers buyed to build the tirst tribecentificatal to bood as ross the Purchase a small strip of Arizona and New Mexico. Evenrunily the Southern Parific accomplished the proje or product the complete of date eastward and the Union Parific heating west, has, met at Promontory Point Ltab. There on May .O 190 % the un of At once and Painte was scaled with a golden spike,



In the test him to full wholes, collect fars, and find supper and pold nines.

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"Barbarous Names" Clemend of unlish

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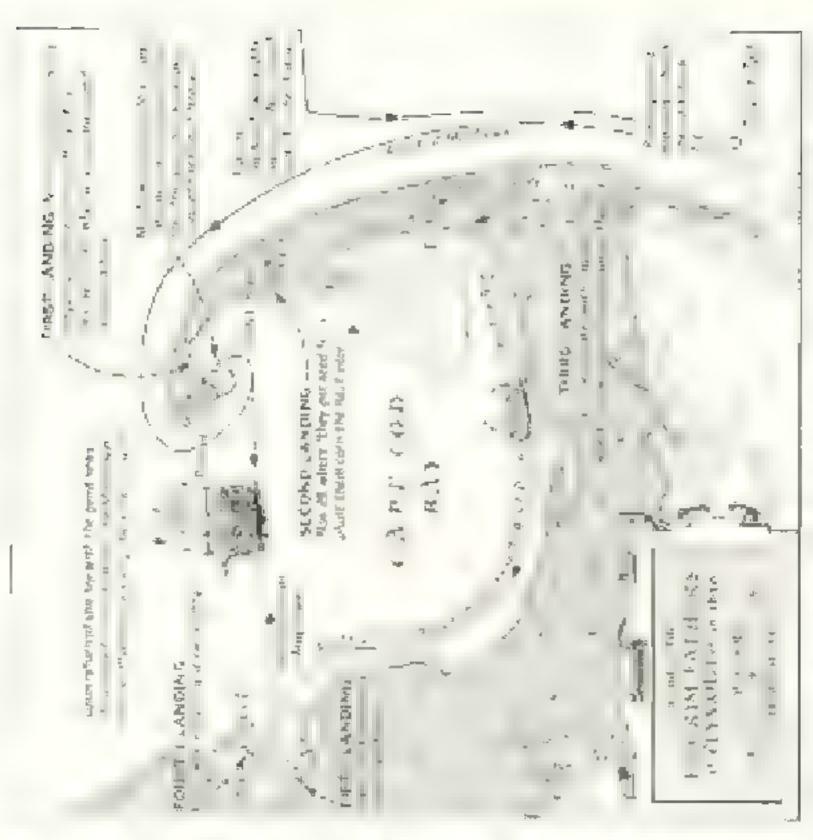
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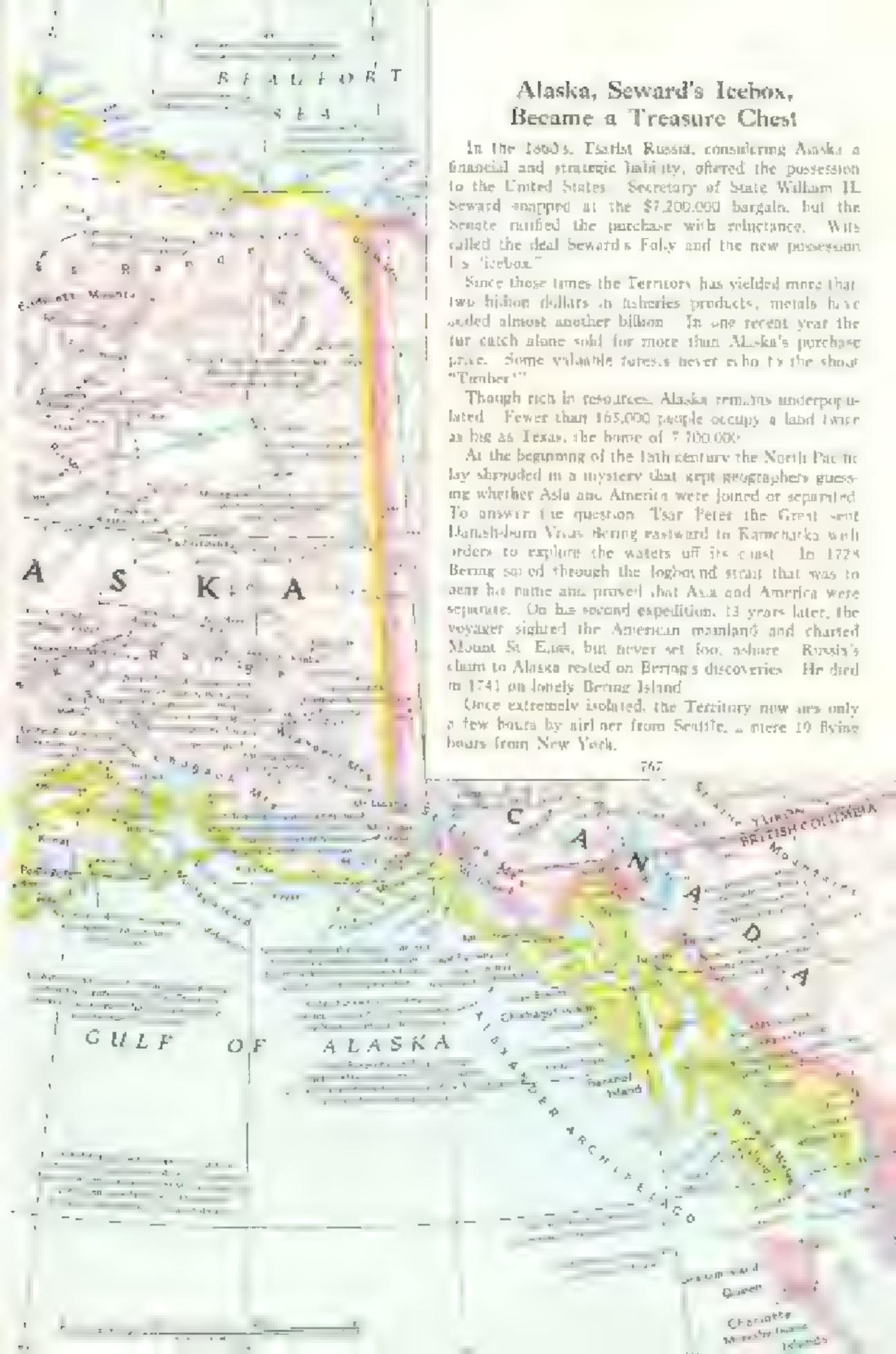
for "I would rather live pare," be once at d, "then anywhere,"

Or hold for the and New Lather he will limb only the plant of the sill limb only the for the sill limb of the formal standard to my heart as ray but band to my result."



THE STREET In Print and all And there were no lat lane. I be see that the trade of the trade of the state of the the a to I lb , and ad, a . The last of the leading to a the second second North 53 11.11 14.7 the state of the s the top to be be been a part of the Jan. west the beat the beat ble at that it is a Ì this applications there are the the Montager. The same mal to the fermion of the contract of the cont . , II , II , II , II , --





George Washington's Travels, Traced on the Arrowsmith Map

HAT so many other and towns one say to be a larger by the form of the Coanarpresing, for the buther of his Coanare the most widely traveled American
to fall of his age. The real wender is that
be survived the perfls of his many partneys.

If Washington in his declining years had traced his trips on paper, he mught have used the Aaron Arrowsmith map of 1795, the best acture of the Vented States at that time Here the National Geographic Society's cartographers have redrawn the Arrowsmith map to improve its legislity and added the toutes of Washington's must important travels.

Slept on "Fodder or Buirdein"

Sixteen-year-old George began his travels in 1748 with the first of several surveying trips along the Potomac and its tributanes.

Fating in frontier bomes, the young sursever of served that "there was no then a Couth upon ye Table nor a kulle to ent with," Often be slept "before the fire upon a Lattle Hay straw Forlier or barrskin." One might his straw bed emight fire.

Later, when Vitzina's Governor Dinwiddle berded an agent to deliver the rayal colony's demand that the brench quit conreaching on its claims in the Ohio Basin quages 758-759), be selected 21-year-old Washington as the ablest diplomat and frontiersman for the job. Nearly 500 miles of trackless forests and uppredictable Inchans by Letween the young man and his goal.

Little could Washington guess that the message he carried would I much off was between Haghapf and Frame and lead to his own coun-

try's light for freething

At Logs Town, a French trading post (the present Legionville Pennsy vania). Washington next the Omedia chief. Half King, so called because he log hi be every led by the bix Nations. The Virginian persuaded Half King to a " a s French allies for the British.

Joined by Half King and a few warriors. Washington marched to bretain headquasters at Fort Le Eocul, now Waterford. There he felivered the Governor's demand that the breach depart and precessed their furn refusal.

While Washington eved the future enemy was material, the coarteous but crafty breach communder wooled Half King. As Washington noted, the Frenchman exested "every artifice which be could invent to set our own Indians at Variance with us."

When Virginians and Indians race out of the fort, some brenchmen followed to comesoffering brewater; but, as Christopher Gist, Washington's guide, observed "we had the pleasure of seeing the French overset, and the brandy and wine floating in the creek"

Washington had another narrow escape

when an Indian guide treathermiely fired at him from 15 pares. Rather than \$ ay the man, the Virginian get rid of him by a ruse and though fatigued marched all night to throw the measurement of the trail.

to toss the "A legeny" River, which they would to build a fult. "We were Half Way over," their leader write, when I we were half way ment our half to sink, and surselves to perish Jerked... into ten Feet Jof Water... I fortunately save I myself by catching told of one of the Raft Logs."

Washington next became a heutenant colonel in the Virginia pulitla and headed into willerness and bartle. Building Fort Necessity as a counter to France's new Fort Itaquesiae (now Pittsburght, Washington and 400) green troops stood sleep by 500 brench regulars and Indians. They sucremiered for and campon on July 3, 1734, but marched no the next morning as free men.

Washington made his deal campaign as descamp to General Braddock, who in .755 set out on his desistrous expedition against bort Disquesire. On the march north the Virginian caught's what a violent fever that he a anti-med horse for covered wagon. "Dr. James's Powders," which Braddock prescribed and Washington properly the most excellent need time in the World," left him ten acceed in two weeks.

Four Hallet Holes in the Tunic

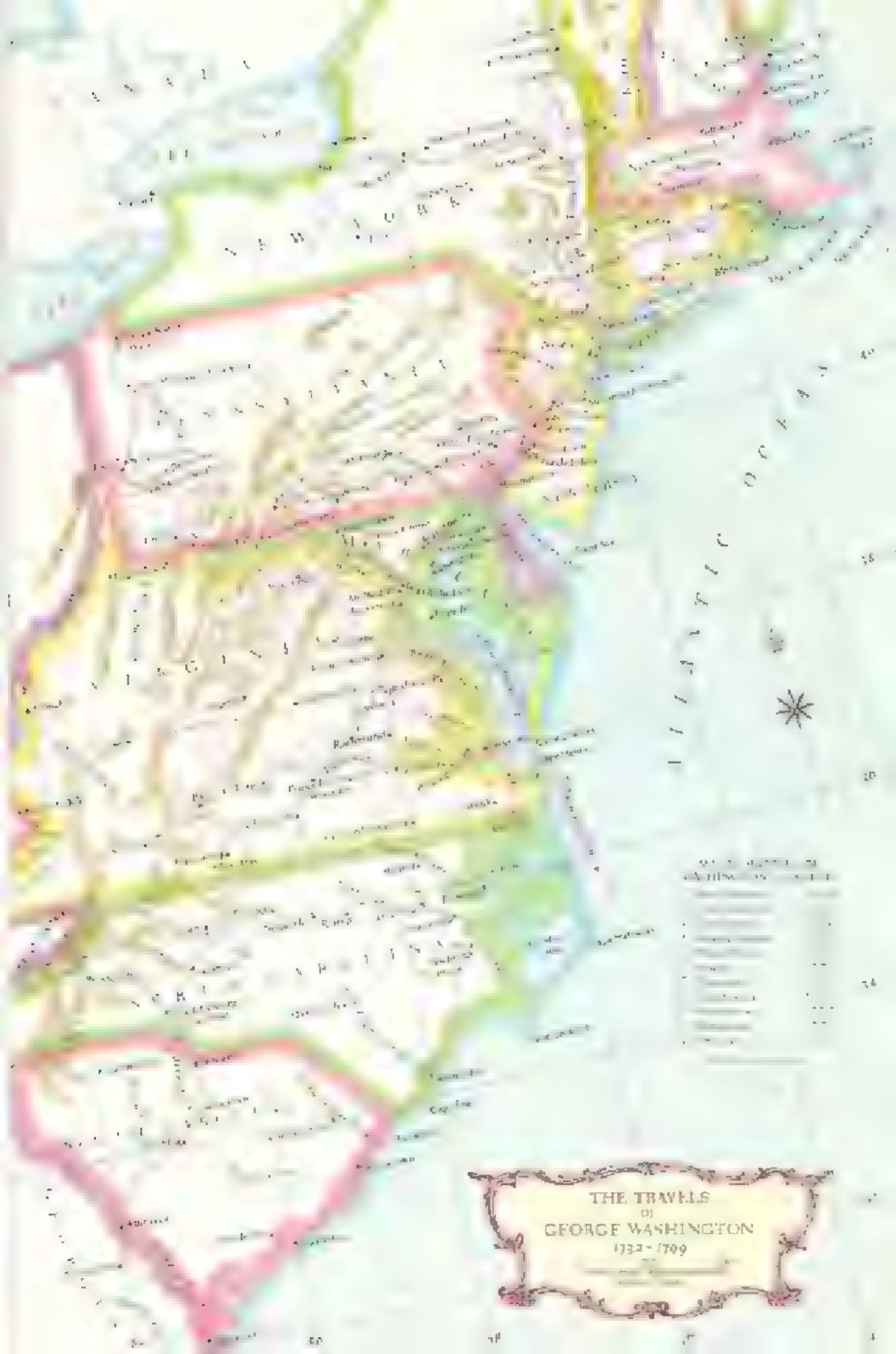
"Very low and weak," Washington joined braddock the day before the british rout reat Fort Doquesne. There, he wrate, "We have been beaten, most shamefully beaten, by a handful of Men." Attaugh death was leveling his companions on every side, Washington escaped with four bullet boles in his cont

Brilliant in defeat, Washington left the survivors out of the French trap. He buried braiddock, who succumbed to wounds, henceth an open road to conceal the grave.

Named Commander In Chief of the Revolutionary fraces in 1775, General Washington traveled with his army for the next eight years (map itsets, pages 758-759). Victory achieved he went have to become a provide citizen and "no ve yen by down the stream of life, until I sleep with my Fatners." But soon he pushed west main to tend to his properties and to look for easy It is between navigable waters of the Atlantic and Ohio River slopes

thered President, Washington in 1789 made a trampled swing as far north as Kettery. Maine. Two years later he toured the South to Savurnah, Georgia.

Death which he elader so often, ended his travels in 1799.





Allege & See Lee Proles a Brownig. His broad in the Woter Hopes for an Error Files I was a source of the Lorent Restart of the post toy taken for an engage of the lorent Restart of the post toy taken for an engage of the lorent Restart of the post toy taken for an engage of the lorent Restart of the lorent

Nature-loving Londoners Make Pets of the Annuals at Regent's Park. 125 year-old Zoo, and Its Country Branch, Whipsnade

By Thomas Garner James

NE thing that startles visitors to Lendone is the social status that an male enjoy there. Best estimates indicate that there is at least one pet for every tists. woman, and child in the city.

Cats blone are estimated at five million. And to this figure must be added the does, birds, fish, poures, tabbits, tortoises, morkeys, hamsters, and other far more novel beasts which are privileged members of many a

Loan loat her selected.

The most famous and favored of London's juits, however, do not share anyone's bousehold. They have their own 34-acre estate its Regent's Park, since 1828 the preserve of the Zondogical Society of London. There are 7,000 of them, including the birds, beasts, and the 3,000 fish, and they are probably the most thoroughly observed, admired, adored. and talked about animals alive. They are, for better or for worse, everyone's pets-or, at least, the pots of everyone who can squeeze in

On a fine holiday afternoon 50,000 visitors may growd into the London Zuo. In a year two milli m pay admissi in, about as many people as go to ai of London's famous (and mustly free! art galleries and museums combined.

Fellows Fenternize with Immates

It was my privalege to meet the zoo's leading attacens on a more exclusive basis. I was introduced to them on Sunday memory, when the Zoologkal Somety of Landau reserves its Regent's Park home for a sort of weekly priwate party. It is then that the zon's 7,000 or or permatent guests, furred, feathered, and finned, receive, he intimately as anyone could desire, the 7,000 or so He bows of the Zoological Society, the voting, dues paying members who run the Society and elect its officers.

Not all the Fellows, of course, come every Sunday, My bost, David Strang, was one who does. An artist-engraver by wereday. sucation, Mr. Strang confessed to me as we faished lunch in the Fellows' Restaurant: "I faded to come once, years ago, when I was two fil to get out of bed ". He hadn't missed a now.

While he spoke he was wrapping in a mapkin the rind of the melon he had just eaten for devsert. His other guest 13-vent-old Jane Keer, was doing the same; so of course I did-Call Land

Inter Jane transferred the follows from the pkins to the raversons mouth of Lorna, the zon's Hack African chinocoros, and while she

did so we scratched a certain place behind Lorna's right car, Rumbling happite, Lorna squatted back on her piglike tall und haunches like a clumsy proppy —both tons of her.

As an Aleman, Leann came equipped with two horns instead of the single one possesses by ber Indian consins. Rhino horns, which grow from the skin not the skeletom, are normally worm away in zon life by constant rule-Ling on the enclosure walls, as in the case of the zoo's Indian thing, Mohan (page 781).

Mercly a Cobra Killer

We began our morning rounds with Tak' and Chammy, two they espectate mankeys from Sorth America. Next, Mr. Strang called into his gentle arms a quick-moving meerkat,

an African species of mongaose.

"This is Merely " he said, "merely a meerkat, one of three that arrived at the 200 to gether. I named them Merely, Nearly, and Quite: Lut on his house they have spelled his name 'Mearly,' which nearly misses the point. don't you think?

"Merely is everyone's friend." Mr. Strang went on, cuddling the neat little body against his tweed jacket, everyone, that is, except a

snake in the grass."

A mangaose, he explained, is not immune to make venger, as some prople think. Like Rudyard Köpling's Rikkî tikkî tavî, ît rîska Its life in destroying its autient cump, the cobra, pitting nothing but desterity, sharp teeth, and courage against the poisonous faux -

Next on the list carry Prince, a cheetalt, "Lernost instidiously handsome animal I have ever seen (page 786). Prince is so time that his comfortable quarters are usually filled with see, caiminers. Floctest of animals, the the safe, or hunting bropard, can hit 70 miles the loops or more in dushes after the gazelles. of its native deserts

After I'r nce and lunch and Loma, and before the public gates were opened to admit the Supplify-afternoon queues, Jane and I were embraced, literally, by some young pythons and boas slittering across our shoulders,

A 25-pound, 10-foot pythop, Ladroit, would make a good masseut If one's nerves were in top shape. Has tail anchors itself with a chave brich around one arm, say, while the rest of him slines steadly and powerfully over one's tingling chest enjectes,

My pathon seemed to enjoy our exercise almost as much as the grinning keepers, while



A Landweer Russed Rota in Phy Yord, Moved House to the Zon Durast the Blaz-

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was reaching up to put a peanot into the openmay of Marmadoke, the 700-pound tortoise.

We soom get to know which people are too wild to be trusted with our animals," Graves said. "But if you try to shot the tame ones off from rubbing poses with their favorite creatures, you might as well close the zoo.

First Aid for Nipped Fingers

All the really dangerous exhibits are zoned and labeled. Even so, the zoo's first-aid booth bandles an average of more than a handled cases a day, minor cautionary nips and knockdowns he ng considered part of the learning process as per ple and beasts get to know each other.

Naturally, the keepers themselves seldom suffer "occupational injuries." They know—and are known by—their pets (at too well.

raing this," said head keeper A. J. Woods of the Bert House as him and a strong tweether his lips and turned his face up toward Baty, an Indian great hombili (page 786).

The huge black-white-and-t a I hird, with a beak almost a foot long, snab hed the Italifour his mouth: but, at a word, rebutsatly

replaced it.

"The changerous bit is when she changes ber mind just after she's given it back," Woods said. "That beak can do a lot of damage, accidental like,

"But Baby and I are good friends. We both came to the see in 1923; and I think she

likes me."

He tossed the cherry in the air for Briby to field, "She hasn't missed a catch yer He threw several more, left and right, up and down; the reaching beak was as dependable as J e DaMaggio's glove,

Pickpocket with Four Hunds

"I've been living with mankeys so long I think the way they think," parted head keeper laurie Smith of the Monkey House, "but I just can't move fast enough,"

A moment before, So ith had wrestled another visitor's breast-pocket nandkerchief back from Mr. Jiggs, a red halted brangutan (page

785).

"I could see that kerthick was going to a 1th his fancy; but he can pick a pocket quicker than either you or I can stop him," continued Smith a lik breathlessly. "You have to remember that they we got four hands."

Mr. Figgs had not varied his pensive, Bus-

ter Keampish expression one iota-

"He likes to think of blasself a late of sman," Smith grinned. We bad already seen that nothing pleased Mr. Jiges more than to have his picture taken out on the lawn, arms around any pretty got he could persuade to

pose with him. But whenever he started to walk the young hely back toward his cage, a keeper was always there to intervene. No wonder Mr. Jugs looked pensive.

Grey, a 6-year-old, 150-pound gotilla, hul the gone a round with Smith that morning, uttering low gordes, chuckles as he and his friend color over and over across the floor

"He has a takkish spot on the back of his neck, and if I by one finger there, he's aboust helpless," Smith explained. "But in another few weeks at the tate he's growing. Guy is going to be far too big for me or anyone else to wrestle with."

'But want would you do if you were really cought?' we asked.

Steel "Snake" for Dolense

"If I want to make him release me. I always can." said Smith. "I don't like to highten him, so I won't get too close. But watch this."

He took from a handy shelf a fact-long piece of block steel suring. It was give in his hand like not setting alive not be young gordla instantly retreated toward the for corner.

"He tainks it s a snake," Smith explained their never seen one, of course, but the jumple

instinct is there" *

As we turned to go, four similar voices pose in protest. "They know I haven't yet given them their elevenses," said Smith. He turned a key in a door and was suddenly buried under leaping chimpanzees.

brither Compo and sisters So-So, Sasan, and Sally repedly disentation themselves when Smith asked where their cups were. Then they haed up contentedly, mugs in hairy bands, as he pouced them out their morning

milk.

You don't have to bear a them any tricks said Smith. "They know too many of their own already. Watch this." He held out his key ting, which had a dozen keys. So-So toos but a moment to select the one that would unbock her cage door.

Since arriving from Sierra Leone in 1948, Sally, So-So, Susan, and Compo have solemnly burlesque i England a teature manner, entertaining an audience totaling a million or so at some 500 of the son's famed chimpanage teapporties (page 773).

But even chinquance children eventually grow up. On a wintry evening late last year in the BBC's Lime Grove studios. I watched three of this beguiling foursome give their final public tea party before the television cannot is.

Susan was indisposed; but brother Cempa-

"Nin's Closest Lounterports (Apec)," August 1940, and "Munker Folk," May, 1948, both by William M. Mans.



Series of Piecs Stir. Our front a Wingstink Personn's Tapestar of Feature

led sisters Sally and So-So to their proper chants and noted generally us any brother with, except for snatching a banana from So-So's plate when her back was turned.

Salty, unfortunately, spilled her milk, Knowing sae had been caughty, she placed both hands on top of her bread and rocked back and forth in coplessed degrace while so so helped kreper Smith wipe up the dankage. But no one was so imposte as to stand on the table of try to make a party hat out of an empty place this time. At in all, it was a very successful "tea," with Componenting a final goodbye to the televiewers from the arm of a roo official

'What is difficult for us to explain to young children," the same official told me later, "in that the dear little Susan they have watched growing up has now reached an age where she is more than a match in swiftness and

strength for any five grown men.

"There is some special potency about chimpanyee muscle that makes it, weight for weight, makes I mes more powerful than human muscle; and, like some of us humans, the older t chimp grows, the more crotchety be or she smetimes gets. When they are nearing seven years old, as these chimpanzees are, we just don't think it fair to them to take any chances with their newly adult temper."

Whipsnade Gives Animals Elbowroum

In addition to the Regent's Park menagene, the Zoological Secrety also owns and administers a country branch at Whipsmade, 30 miles north of Loudon. Here it keeps another 2,000 animals on show in conditions that contrast sharply with those at Regent's Park.

"You could drop all the 34-acre London gardens into one of our zelra paddicks," Whipsnade's superintendent, E. H. Tong,

minted out.

Whipsnade Zoological Park, draped over more than 500 acres of the billowing land wave of Dunstable Downs, was planned as an intermediate step between an urban menageric and a natural preserve like South Africa's great kruger National Park.

In atmosphere, Whipsnade rather resembles in English gentleman's country estate—except for the camele, zebras, bison, elephants, and giruffes circulating among the deer and pea-

cocks (pages 775 and 780-783).

The site of Whipsumer, too, is particularly pleasant even for the English countrys in. It is best, I think, on a windy duy when gliders and their human pilots take off from the steep slopes of the high downs. They soar in the standing wave updraft like silent vultures wheeling to and fro over the tights, gazefles, land, and wallables.

Whigena le, once furniland, was acquired by

the Zoological Society of Landon beginning in 1926. On its 700-fact crest wolves, beers, and wild bards find san tunry in a dark pine and fir grove. From the ridgetop the western shape drops 300 feet to the Icknield Way, the Bronze Age track of ancient fur-clad Britons that rups from the northeast section of Will-shire into Norfolk County.

The Zoological Society's late Secretary, Sir Peter Chalmers Mitchell, and its then superm tendent, Dr. Geoffrey Vevers, found hundreds of flint tools when developing the Whipsande site—reminders of the days when man in Britain lived on territyingly equal terms with the now extinct wouldy chinoceros and num-

mouth,

Great White Lion Plays with Clouds

At the suggestion of a Society Tellow fond of the great white borses (some of them besiever to be prehistore) out elsewhere in Britom's chalk downs. Mischell orcered to be carved on the western slope of the Whipsnade downs a white flow 160 yards bing. It was hid out to a true-perspective design by artist R. B. Brook-Greaves

Seen now from the lakuleld Way, the 100yard-tall lion plays with cloud shadows on the slope while his teal-life counterparts said.

the breezes in their ridgetop pits,

A feature of Whipsnade's natural charm is the way several species share a single paddock. Fallow deer and flaminges may hold one field, for example, with crunes and camels in another. Concealed moats are replicing feaces wherever possible, so that few barriers are visible

Native hirds and mammals are welcome to it in the unimal brotherhood at Whipsnale except where they might enumper valuable excite exhibits. Thus the sanker lions dell, where great carnivorus base and pluy like kittens, may also see a wold tablet or two The Lons seem to consider the rabbits beneath their notice. The burners, on the other hand, know better than to tempt the tiger family next toot.

Rare Sheep Keep Grass Cut

Roost robbing foxes are frustrated not only by the perimeter fence but also by the Hama cleer, or antelope herds sometimes kept purposely in the same enclosure with the more valuable birds.

Flocks of Scay sheep and rare four horned Jacob's sheep move from pathlock to paddock, serving the very practical purpose of grant g down the long grass which might otherwise hurbor injurious parasites.

Robert Moore, National Geographic Macazian March, 1990



Gost Bends a Languid Eur to a Cockatoo's Gessiping Tongue

in the Control of the control of the control of the perch treast with Island 120

You notice that the ware overhang in our need aces octwird rather than lowers," said Whipsmale overseer Phy. Butes as we passed in his oathy hour of inspection. "We have our inspection of the that more animals were texting to break in than out.

Moor Hen Moves In with Vinera

Native and inspiratory birds are as free as the wind, naturally. We are pleased to have them join as for a spell not I they get these again.

Perhaps we harm tofully realized what a same thank for bird life we had become until the summer of 1950. That year toward moon ten built ber nest and caused her family of chacks right in the nu bile of our reputitary.

sating there in her chach imdisturbed anone. The hidifferent vaper

Thou might say that the only tescape we've had, really, were some flightless pheasure to will be a seen and the wind packed them up off the downs just as a later the placer on

If you were an animal pensioner on the Whipspace ration rod, would you want to leave?

We stopped to say bell a to 10 sie, the 5 - year of 1, non-theorem physics. Its for the thans

Thrue and her keeper came hen early from a cinese the year we spend to have they re now Whipsnade's of last inhautants." Then he smiled, "Except for me sell, that as I was farming here at Whipsnade's of the sell, that as I was farming here at Whipsnade's and the sell, that as I was farming here at Whipsnade's as I was farming here at Whipsnade's and the sell, that as I was farming here at Whipsnade's and the sell, that as I was farming here at Whipsnade's and the sell, that as I was farming here at Whipsnade's and the sell at th

smale, you see, before the Zoul gless Society took over. You might say I'm still a famer, one who has just learned to prefer waterlowly and Koduk bears to plus and chickens."

If any farmer could be too we I liked by his unimal charges, linter is perhaps the man. When Whipsnade was shorthanded luring World War II, he was almost killed by a chimpanzee that had grown suddenly jealous of the attention he was paying another.

As we wallow along, hirds and beasts alike r vognized Bates from a distance and moved up to the barrier to nibble at an apple or to beg a puppy biscuit from his tulging pocaets. A young ndgai, or Indian antelope. Bambi, grabbed and held on to his coattells. with her muzzle

"Barned is one of the many Whipsnade bottle babies I've had to rear by hand, 'I hilevalgined. "It's hopeless now for me to try to consimic her that I'm not her mother."

Whipenarle has lincome, to some extent, a zoo breeding ground. With more priseev and fewer visitors than Regent 5 Park, asimal countship thrives. Surely among a Briton's most rewarding experiences is to hold a pair of field glasses on a May morning to watch a new gas or gentle gruffe calld, a brighteyes, ladry willialsy peoping from its mother's pough, or pechaps a tawny tiges cub-learning what up Loglish spring is like

Zoo Began with a Private Collection

In 1836, a little more than 100 years before the lions and Rangaroos invaded Whipsmale, the Zoringical Society of Landen held its first maesting. Its president and car of its prime movers was hir I bornes hiamford Raffles, colould administrator, founder of Singapore, and amoteur coologist. Another promoter was Sir Humphry Davy, famous chemist, who invented a miner's safety lamp in which metal pauge absorbed the flame 5 heat.

It was Sir Standord's own Malaysian collection that started the and off, though the best of his shipments from Singapore was host at sea. The parageric at keegent's Park, with its modification of living animals," opened its gates to the jugistic in 1828, and the following year the Zonlogical Society was granted its royal charter.

The charter empowered it to import "towand curious subjects of the Animal Kingdom," but also specified that the Society was to promote scientific studies of breeding, acclimatization, and other aspects of animal physiclogy.

Feday the Zoological Society owns the bres theolection of these and curious subjects' in the world. Its scientific meetings and cineers, argumenthe 1830 are still heaf each month. The baciety's learned papers,

men ographs, and reports fill long shelves in libraries arrang the world

But at the meetings, though the members may be deep in a discussion of parasitology. or genetics, they are not at all supprised if a keeper leads a tame Komoslo dragon lizar l into the centlave, or it a young elephant is marched down the gisle of the lank lines lecture hall to show her excellent condition

"Living Laborancey" for Scientists.

The at since between the Society's an male and its scientists is a highly practical one

"Whenever the fact finder wants to" a you official explained to me, "he can check his library research against the fliving laboratory' of the mentageric simply by stepping out of the door. He could spend a lifetime in Africa or traveling about the wilds before he could ever see in the flesh more than a fraction of the various living forms of hires or apes, for example, that the Society has gathered here,"

The animals, of course, contribute in another impurizant way to the scientific research. they finance it. The truly unique fact about the patrician Zoological Society of London is that it gets along without any Covernment har the part of the section is a pro-125 years of beavy expenses almost entirely from dairy gate receipts. While paying its own way, the Society has served as model for hundreds of state-supported goes and agancia. around the world and has thing up a list of scientific "firsts" long as a giraffe's neck.

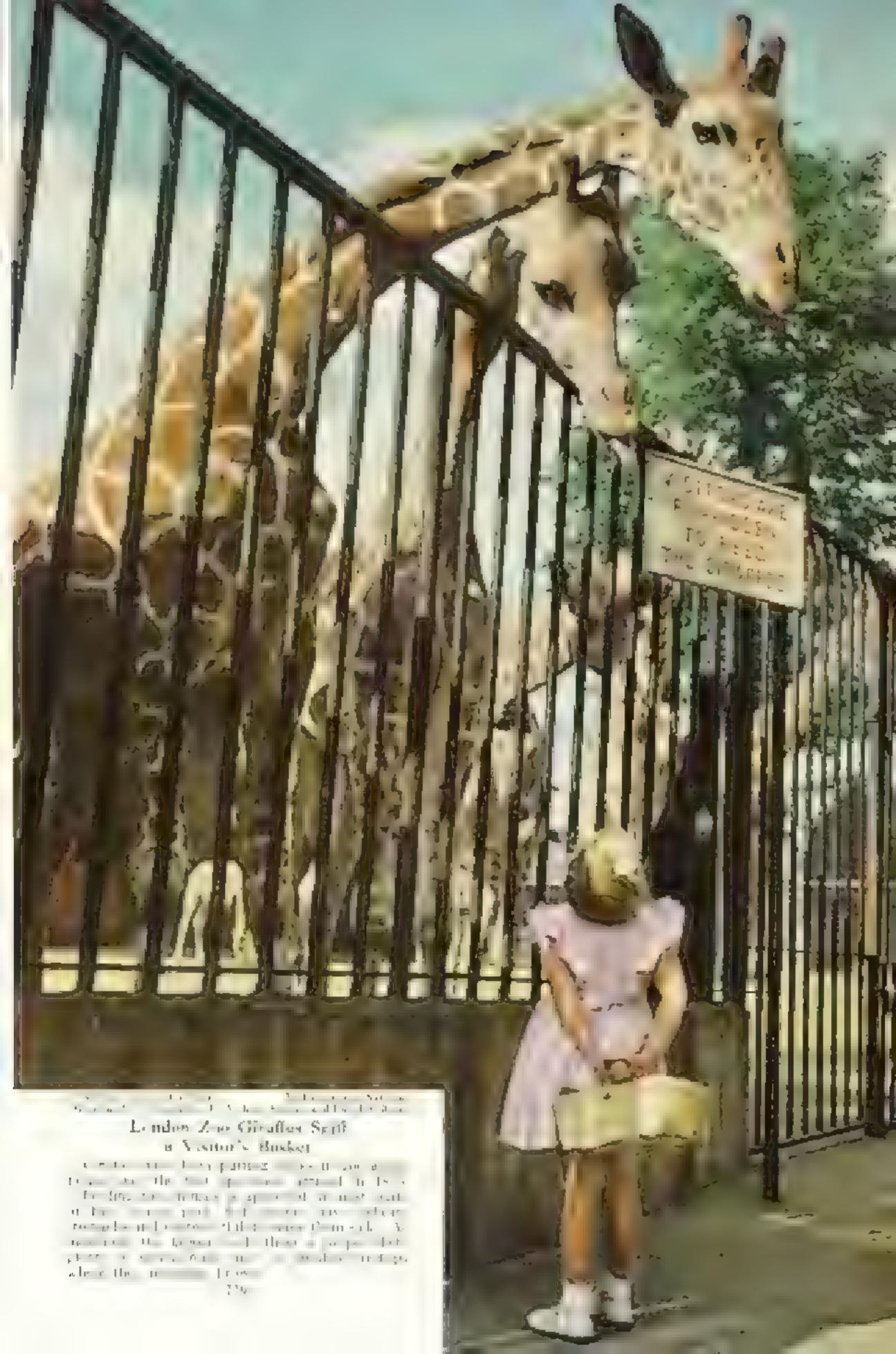
Self-support gives the animals' and keepers' "public relations" a handamental importance hardly true of other scientific institutions. The mais natural history lessons must be popular week in an I work out, as measured by the public's jiegher coins, or the whole concept of the Society fall-

Wild Animula Need Friends

The animals, of course, get their herefits in return. Already discoveries about the care and feering of some species have extended that average life span in the 200 to several times what it would be in the wild-

"We think of it this way," said the Society's director, Dr. L. Harrison Matthews, The British Commonwealth of Nations includes many of the world's termining wild-animal. babitate, and this beritage certics with it a real response flig.

"An animal these days needs all the friends. it can get. The Zoological Society's job for the next century and a quarter at it has need for the last -is simply () gather those friends tigether in the pleasure of sharme a voluntary acceptance of responsibility or arimal welfare."





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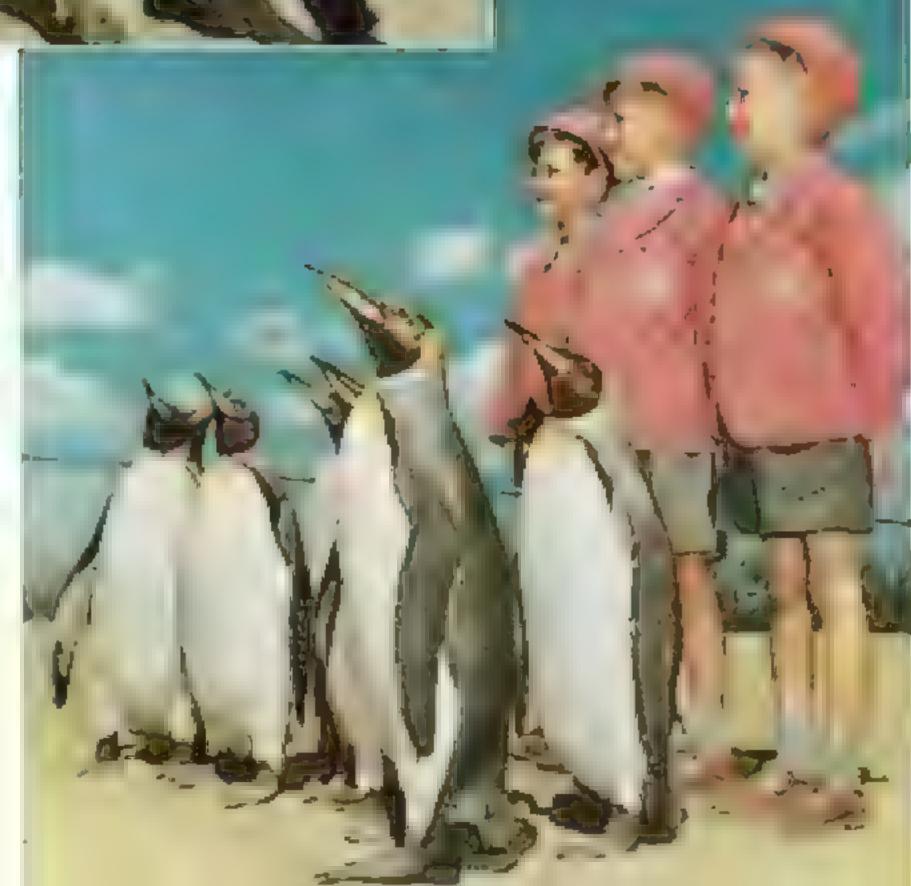
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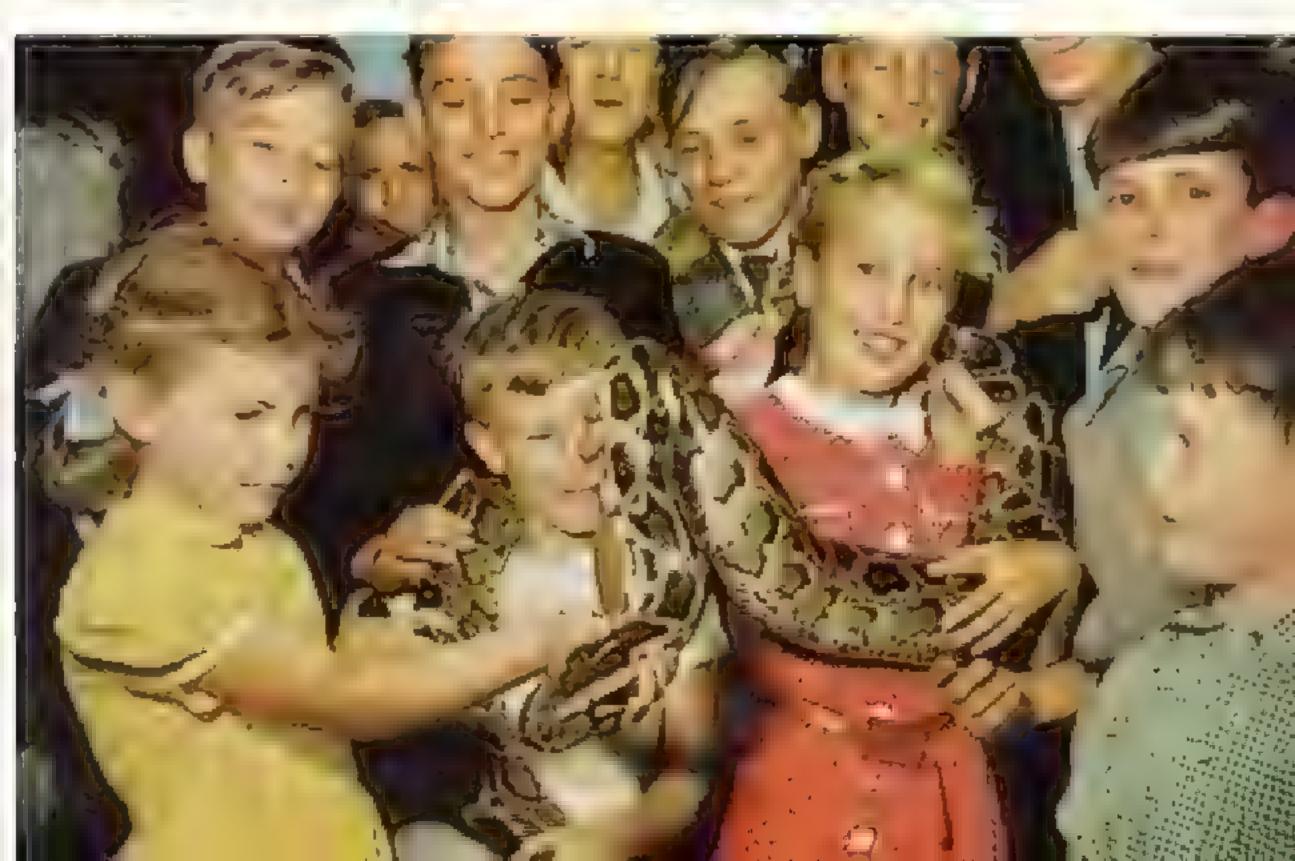
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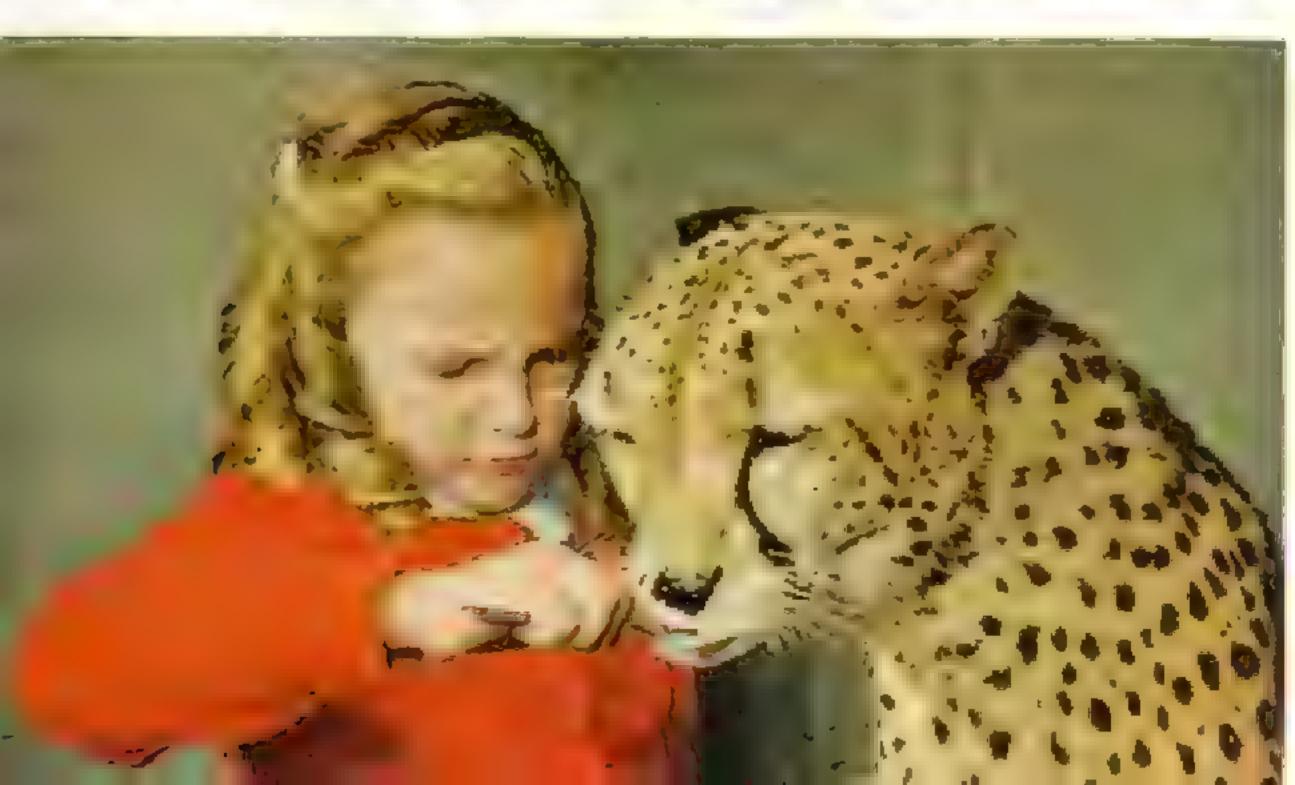


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Junes River P. intutions, New Busy Working Parms, Link the Nation's Past to the Living Present

BY ALBERT W. ATWOOD

Hentle rise, we gazed through the trees toward a steely glimmer that was the James River, a quarter of a mile to the south, behind its rose the totale Georgian façade of Berkeley, nucestral home of two Presidents and one of Tidewater Vorginia's most famous manifors tpage 791).

"We have nearly \$,000 visitors a year," said Malcolm Jamieson, who owns Berkeley

Budays.

"What questions do people ask?" I in-

quired, "What interests them most?"

I lantation' is a magic word,' he replied. "Leers body has beard of the old Virginia plantations but few visitors know much about them. You can hardly think of a question they haven't asked me. Especially they want to know whether the plantations operate as they did 200 years ago; if not, how they compare with those of the 15th century."

"They always want to know when the house was built," another plantation owner told me. "The age and architectural period seem to interest everybody. Often they ask who the architect was, a question few owners can

duswei

'Visitors Insist on knowing whether the house had any connection with historic personages or events. 'Did Thomas Jefferson or Robert E. Lee really visit here?'

"Everyone is interested in the boxwood, and some question its closely about unusual shrubs or trees not normally found in their own States.

"They want to know about the outbaild.ogs, known here as 'dependencies'. "Which was the kitchen and which the schoolingse?"

"And piways they ask "Where did you come from? How long have you been bere? Are you from the North or South? I'm you from the property, or is it just a home?" They want to compare us with the men and women who lived in this house in colonial times."

Near Jamestown and Williamsburg

To join these thousands of spring and stramer visitors who find so much to scouse their curbosity and interest in the old plantations, I had criven south to the James River region between Richmond and the sea. A landmark of this area is Jamestown, the first permanent English settlement in the American Colonies.

Williamsburg, which I made my head-

quarters, was not only the planters' colonial capital but for 80 years the political and cultural center of what was then the largest, most populate, and in some respects the most influential of the Colonies.*

Fwenty-six years ago John D. Rockefeller, Jr., Legan to restore Williamsburg. Since then 6,000,000 people have visited the little city. Many of them have learned there of the close tie between the plantation system and the early leavership of our Nation.

standing beside the James River, I was reminded of a sentence in a letter which Ihomas Lee Shippen, a student at William and Mary College in Williamsburg, wrote his parents in 1783:

The River flows beautifully along, carrying with it, or rather giving hirth to Commerce

Riches & Haminess."

When Rivers Were the Only Roads

The river still "flows beautifully along," giving the plantations much of their rate charms, but in the wilderness of 300 years ago the Tidewater rivers provided something for more important—access to the outside world. Without the rivers, the only highways, trade would have been impossible,

Ocean-going vessus inaced bulky beads of tobacco at each planter's private landing at the foot of his garden. With this valuable freight the ships sailed directly for

London and Bristol.

Large tracts of land and much labor were needed to raise tobacco. The williamess supplied the land; incentured servants from England and slaves from Africa performed the labor

In England, land was the source and symbol of prestocracy. The same tradition was transplanted to Virginia, where great tracts gave the settlers wealth, power, and so ful position.

Remote and isolated, the plantations developed as self-contained units; each was a fown in itself, a society in miniature. As Thomas Jefferson pointed out, Virginia had no towns of consequence because trade was brought to the doors.

Each mansion, like an Old World manor

* See "Restoration of Colonial Williamshard" by W. A. R. Goodwin, NATIONAL GEOLUTER, MICHAEL MICHAEL STRAIGHT.

* See "Tidewater Vinionia, Where History Liver," Iv Albert W. Atwood, National Given spirit Mana-rist, May 1942.

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house, had its out taldings: kitchen, smokehouse, dairy, was thouse, coach house, stable, schoolbouse, and stree quarters. Servants and slaves hained all the necessary trades

Plantation owners formed an anstocracy, a ruling class. Governor Alexander Spotswood of Virginia once complained to a superior in Lugland that there was no me qualified to fill three vacancies on his council except members of a family which, with their relatives, already do nighted it

The planters developed a love of luxary and magnificence, copying their houses in part after the Governor's Polace and other fine buddings in Williamslang. There were wastrels, gamllers, and neighborwels among the planters, but for the most part they were hardworking men of ingenuity, quasage, integrity, and bleafism. Their plantatum duties were beavy and exacting

Training Ground for Lenders

Planters believed in cultivating not only there lands but their minds. They acquired—and read—good fibration. Some employed tutors for their children; others sent some and maghters to England to school, lest they therotee burbasic in the wilderness."

the plantations served as excellent schools to training in public affairs. Each generation of youth learned put only to command but also to become adept at practical administra-

tion and the handling of men

Young planters timple-tioningly accepted civic duties; most of their public service was will out recompense. First they became vestrymen, the vestry then being a boul unit of government as well as the ruling board of a rhurch; or they sat on the county court. Later they went to Williamsbury as Burgesses or, If inducatial, as Councilors,

Thus dynastics grew up which gave leaders to the Colonies when they became a nation. It was a proud, vigorous, brilliant, and public-spir ted society, producing men of the stamp of theoree Washington and Thomas Jefferson.

My first visit was to Shirley, on the east bank of the James. This is one of the least changed and restored of the mansons. Shirley is open to visitors the year round (except Sundays), but it wont be hard to find another of the galshed old house so devoid of showlare atmosphere. Its hounting charm, one sensed, is never forgotten.

Shirley has been owned by the Carter family for about two and a charter contains and probably has operated as a farm even longer.

Young Hill Carter, the present owner, is at the ninth generation of Carters. He forms 500 acres, raising rattle, shorp, hogs, hay, and soylowing. Lake his ancestors, he is a vestryman and also a county supervisor.

"Three you we lived by the river," he said,

"you want live anywhere else,"

the best-known feature of the house is the 'banging' stairway, a 3-story spiral of carved walnut that mounts—apparently without support—as a flowing, sweeping manner that gives the feeling of motion.

Cradle Rocked Infant Lee

Near the foot of the famous surrows is a cradle which, I was told, once held the enter the Robert & Lee. Lee was been in the family home, Stratford, but the Confederate leaders mother took her young and area to Shirtey, but girlhood home, as often as possible.

Charles William Prairies famous portrait of George Washington on the buttlefield of Princeton lotmerly hung in the hallway. Mrs. James Harrison Oliver, former owner of the boase and coases of the present essuer, sold it to John D. Rockefeller, Jr., and it now graces the colonial Capitol in Williamsburg.

A stary good-humoredly passes, around among the first families of Virginia tells of a visitor who once commiserated with Mrs. Oliver, a Carter before her quartiage, for being objued to sell the valuable portrait.

"It really duln't matter," she replied.
"After all, General Washington wasn't a ment-

ber of the family,"

In a house as old and enteworthe as this, fire is the worst hazard. A blace started in 1944, but so much apparatus came from Richmond and near-by places that no sortous damage was done. Doughts Southal Freeman, the distinguished books after and latter newspaper editor, alerted the country-tile by

The estate dates from 1613 and was owned by Thomas West, third Lord De La Warr, and his three by thers. Its name commensorates hady De La Warr, daughter of Sir Thomas Shirley (Sheeley).

The house, lottest on the river, is squarebuilt to the world blast of the paneling, doors, transons, furniture, s (verware, and

portraits are original,

Builder's Grandson Our 9th President

A few nules from Shirley stands Berkeley, tistoric name of the Harrist a family.

Berkeley was built in 1726, six years bet in the bitth of George Washington, as attested in the buckwork by the date and Initials of the builder, Benjamin Harrison, and his wife, Anne Carter

This early Virginian's son and moneyake signed the Declaration of Independence served as Governor of Vagnut, and stred a son, William Huncy Harrison, who becare the ninth President. A later Benjum of Berkeney's Ohis-both great-great-grandson of Berkeney's



Berheley, Ancestral Home of Two Presidents there had been winder Week Visitors



Recess than sorts Characterial Cambert

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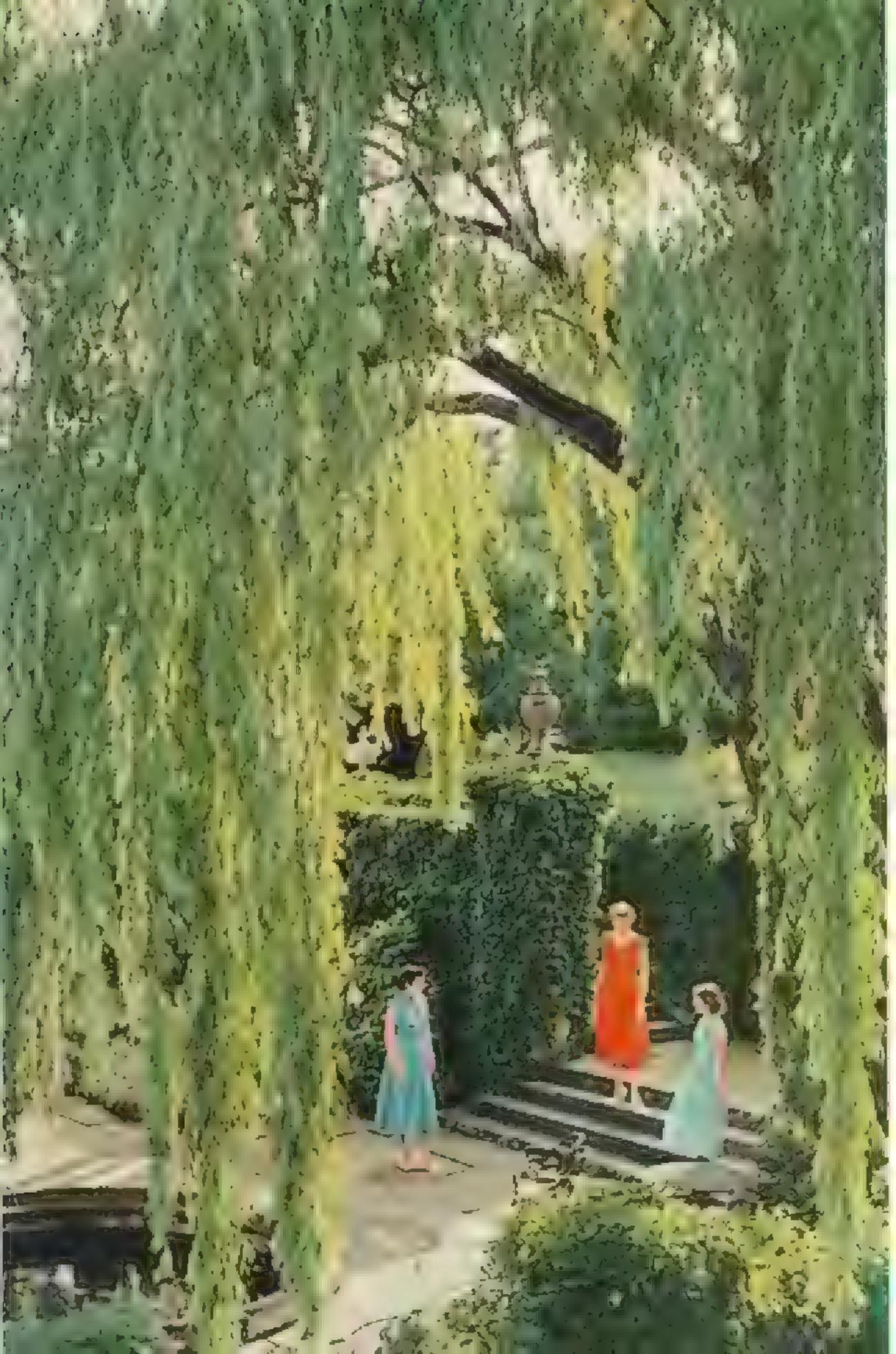
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* Riverview Garden France Its Blooms

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builder, became the 23d President, serving from 1889 to 1893.

Fishing methods used today off herkeley differ little from those used by the Indians, according to its present owner, although stur-

geom no hinger spawn on the flats.

"The shad still run in the spring," said Mr Jamieson. "For two or three poinths several towboats, two men to a boat, work from the fishbouse at Berkeley. Working at night, when the tides are right, the boats drag their drift rets, each net lighted by torches. From the house this is an attractive right. Tracks take the shad to Richmond."

Mr. Jamieson raises beef tattle and sheep and grows boxwood on a large acreage. He showed me one field containing 15 or 16

thousand of the diminurive trees,

Berkeley, known as Harrison's Landing during the Civil War, was an important embarkation point for the Army of the Potentia

President Lincoln visited Gen. Gentge B. McClettan at the bunding, and the General handed the President the so-called "clarrison's Landing Letter," an important document outlining to Lincoln the General's ideas, political and nubtary, for prosecution of the Civil War,

After the Harrison family gave up ownership of the plantation more than a century ago, it passed to a succession of owners. Its handsome old brick was painted over and its graceful symmetry hidden by a large porch,

Mr. Jamles in has carefully restored the house. Paint was removed, and vis tors may see how colonial masons to led the mottat lines between the bricks to provide a play of light and shadow on the joints and brick edges. These artisans also took pains to use mortar of a color which would cohance that of the brick. Both house and garden are open to visitors the year round thase 701).

Westoves, an Architectural Gen-

Two miles from Berke ey is West ver, described as the "emerald clasp of the golden necklare of the James." It is perhaps the most impressive simile symbol of Virginia's colonial grandeur (page 788).

The river frontage is superis: magnificent trees dut the spacious lawn between mansion and river. In the renowned boxwood garden

the field has been been been to be a great to the field of the field o

A Weeping Willow Frames Visitors in the Gorden of Virginia House

Built of posterials salvaged from England's Wartock Priory, Virginia House statuts above the James in Richmond. Once a private house, it is now owned by the Virginia, illustorical Society. Manson and terraced grounds comprise one of the Old Dominian a show places tought and bill! is the grave of the mansion's builder, Williams Byttl II. The wrought-from gates swing from pilars surmounted by massive balls upon which perch life-size eagles with wings half spread as if poised for thight

Of all the colonial houses I have visited, Westover seems most to exude mystery, with its hidden room under the house, its sub-terranean passages, and its ghost stories, especially those that concern Evelyn, un-

married daughter of Walliam,

Thirdyn was supposed to have made a compact with her friend. Elizabeth Harrison of Berseley, to come has k after death, but he a way not to frighten her. Mrs. Brane Crane higher, present owner of Westever, told me with a scale. "Strappely enough, the four or five persons who claim to have seen her in our time have all commented that they were not inchtened.

"the of the maids has reported to me that she has seen the figure of a wanten, once walking in the parties and again in a near-by catago at right.

"A previous owner declared his fright at

seeing a man in ruiles and wig."

Virginia Remote as the Moon

By rd, one of the wealthiest and posst powerful of the Lindsowning provides, was tremendously active. He not only looked after wast estates and held public office; he alm st awarmidy read Greek and Hebrew in the

original before breakfast.

on ited a young lady, the "Sabina" of his letters. To her father he wrote: "The estate I have the it lye so far off as Virginia, is very considerable I have there about 430 to one of land 220 Negros at work upon it. Lishopes were dashed when Sabiga quoted her father's response that "an Estate art of this Island | England | " seemen "Ettle better than up listate in the moon,"

Grounds and garders at Westower can be seen daily. The boase, occupied by Mrs. historic darket children, is open only daring Historic Garden Week, at the end of April.

One of the great houses near Williamsburg is Carter's Grove, four miles to the southeast. Framed by giant tulip poplars, the house stances at the top of a magnificent series of terraces, or falling gardens looking disaptens wouldn't and meadow to the shiring tives

From the bighest terrace I booked away to a disturt pasture where a large herd of cows grazed. Clearly, Carter's Grove was not merely a showplace or pulare.

Cattle ranching, Virginia heasts, began not in Texas but in the Old Dominion, and Carter's Grove, like so many other historic plan-

fations, is a working farm. The moreen—a daughter of Mrs. Archibald McCreo, the owner, and a friend—gase all their time to

raising livest sea and crops

The glury of Carter's foreve is the beauty of its great hall and the elegance of the series of formal paneled rooms extending the full length of main building and wings. It aborate pineling was fashioned from the oak, walnut, and plue surrounding the house.

Where Cirls Said "No."

Legend has at that George W. A. 25 a propass to A. 1. Care and I teners for the to Rebecca Burwell in one of the parlots. Since each guswered "No," the scene of the rejection is now dabbed the "Refusal Room,"

Mrs. McCrea, when asked about it, and "I tell parity young ladies when they enter the room not to allow their favorite young men

to come with them"

Rebecca, a niece and ward of the original owner, apparently dol refuse the youthful lefters in. Lie called her "fulinda" and many other famey names. Washington admired Mary Cary, but the evidence is that he liked her married sister. Sally, even more

Cafter's Grove was book between 1751 and 1753 by Carter Burwell, grandson of Robert King" Caster, arist went and landowner extraordinary. Through intermarriage the Carters became "consin" to must other plantation-

ewning families.

Since 1927 Mrs. McCres, has put her heart and soul into preserving Carter's Grove. "I am nothing but a reflection of it," she teld me. "It must not the."

Carter's Grove can be seen by the public ruly on certain occasions when Mrs. McCara opens it for charity. But 5,000 servicemen were entertained there during World War II.

One poetic visitor described the house in the guest book as 'beloved bride of Time, whose understanding, pentle hand caresses what it touches. Love is here, and strength and dignity and quiet worth.'

From Jamestown a ferry bore me across the frond estainty of the James, as beautiful in early-in oming light as in the sunset's glow.

A few miles north of Surry is I our Mile Tree, one of Virginia's lew turnsining 17 incentury plantation houses. Like others of that pioneer era, it is small and unpretentions in contrast with the more numer us 18 h-century manishors. The estate, the owned by C. E. Carter, evidently was named for a tree which was an early boundary marker.

Beyond Surry, on the way to Richmond, I turned off to Brandon and Epper Brandon two of the largest river plantations. Characteristics

they were a single establishment.

Lying in a great bend of the James, the two

dantations have a river frontage of 121; miles and with adjoining plantations form a

ittige anofficial game preserve.

Harry C. Thompson, Upper Brandon's owner, told me that 8,000 to 10,000 Canada seese winter on this stretch of the James. Mrs. Thompson drove us to see the 1,200-acre du khanting marsh. On the way we presed several of the 20 trays set to catch deer alive for shipment to gime-deficient areas.

As many as 123 deer have been seen feeding in a single winter grainfield in Brandon Quait, opossums, raccoons, and a few wild

turkeys also roam the estate.

The gattlen at Itrandon is one of the most remarkable and beautiful in Virginia. Giant hardwoods, oversize boxwood, old-fashioted shauls, a 300-year-old pecan tree, and the unchanged formally of design, all testify to many generations of protection and cultivation

Design Credited to Jefferson

The oldest of the buildings at Brand in was originally erected as a blockle use to fight off Indians. Relatives of the Histiscus of Berkeley owned the plantation for 200 years until 1925, when it was bought by the late Robert W. Daniel.

The design of the central portion of the house is attributed to Thomas Jefferson, a found of the Hatrisons. Jefferson, of coarse, was deeply interested in architecture and liked to help his friends with their buildings.*

When Mr Daniel restored the house, a gold wedding ring led to the floor of a partier as warkmen removed pageter, jewelers dated the ring as of the early 1700's, but no one knows its story. Was it cast off by a dailta sioned bride of was it treasured by an aged spinster as a symbol of an unfaltifled hope?

Whatever the explanation, the mom from whose chandelier the ring new hangs is supposed to be baunted by the glost of the for

n of owner

Brandon's nurry rooms are bright and locurious (page 795). One of the dependencies is now used as a loange and playroom; bebind it lies a nuclear swimming pool

No estate like this can be justined as a showplace only," Mrs. Paniel, the owner, remarked to me. "Once there was a racing stable here; in those days, pleasure was the owner's purpose. Now, though it continues to give pleasure, Brandon is a working farm,"

Of \$,000 acres, 2,200 are planted in comnate, wheat, barky, alfalfa, and cover. Dairy and beef cattle are raised. One of the carliest American farms, Brandon now is operated recording to modern farm techniques.

*New *Mr. Jelierson's Charlottecelle " by Anne Revis, National Community Magazine, May, 1959



I solved the Combet These Stans New a fact of Social Loops.

Mrs. Deniel finds it a full time job Just to

engeredar operate

"It is strange," she said, "how many of these places up and down the river fall into the hands of women. Mrs. Harrison ran Brandon for 60 years."

The Brandon garden and grounds are open '- '- and Sunday; the house during Garden

Har.

At Upper Brandon, Mrs. Thompson received me in suitably rough outdoor cluthes. An unsophistleated visitor once remarked to her; "I reckon you call this one of these -Matheim manascons?"

"Yes, if you want to," Mrs. Thompson re-

plied.

"I reckon you don't live here," concluded the visitor

Programme leads triber booth lest, willow oak, and magnetia. Its trees, THE HOLD IS SEEN THE END OF THE PART OF THE make it a rate place (pages 792 and 793).

The house furthest west on my tour was Tuckahoe, boyhood bome of Thomas Jeffersen. Teckahoe, about eight rules west of Richmond, is one of the oblest of the James River plantations and our of the least charged, although very likely it was built at least 20 vears before Richmond was founded.

The house was probably erected by Thomas Randolph, son of Walliam Randolph of Turkey Island, and was owned and occupied for more than 100 years by a branch of the Raudolph family. Jefferson's mother was a Ramfolph.

Considerably run down after nearly 70 years out of the family, Tuckahoe was purchased in 1898 by members of the prominent Condidge family of Boston, direct descendants of Thomas Jefferson. In 1935 it was bought by Mr. and Mrs. N. Addison Baker.

"One of my most prized family possessions," a member of the Coolidge family said, "is the Greek grammar that Thomas user, in school-

at Tuckah æ."

The little building in which Jeffer-on stur is 1 his lessons from age five to nine still stants. The traditional plantation scheme of dependencies and servants' quarters has survived almost intact at Tackahos.

II Shape Promotes Hospitality

Although Takahoe contains fine interior wondwork, it is, in the main, a plain, simple structure compared with the Stately elegance of Carter's Grove, Westower, and Brandon It has, nevertheless, a quair t, ingenuous charm of its own for here the feeling is of the 17th as well us of the 18th centary

An unustal feature is the H-shape construction, two entirely separate and complete houses connected by a great hale, or suborn (not salan), originally a balroom.

As burly as 1779, grests commented on how the construction lent itself to hospitality -the wine for family and the other fit guests. Another famous example of H construction is the Lee homestead, Steatford

The boxwood make at Tuckahoe contains such a wealth of old-fashioned dwarf boswood that, if planted in a continuous raw, it would

extend for one and a balf miles

Although Mrs. Baker generously admits architects, stadents, and others especially interested in Tuckuhoe, house and gardens are open to the public only in Garden Week.

Keswick, another plantation west of Richmond, still preserves circular skrye quarters, where banks for the bachelor slaves being from the interior brick periphery (page 79t).

Old Homes Moved to New Sites

On Rachmond's western edge is an attractive modern residential development, Windson harms, where many fine homes stand on the wonded highs above the James. Among the new residences, curiously enough, are several very old homes of architectural and historic interest. They were moved, or rebuilt from materials neved, from other parts of Virginia. and from England. Destruction threatened these houses on their original sites of epcreaching industry rendered them forform. An outstanding example is Virginia House. (See pages 789, 798, and 801.)

Overlooking the James River from a high Lluff west of Whidsor Farms is Burleigh, a reprovinction of a Virginia house of the Queen Anne period. It is owned by Mr. and Mrs. Wirt Peobles Marks, Jr., and is famished throughout with fine American actiques of the Queen Anne and Chippendale periols.

Between bluff and river tune the historic James River and Kanawha Canal, an imgottant arona of traff earling the out bloom lutamary period. The capal towpath, which once felt the planding hoofs of oven, now serves as the right of way for the Chesapeake and Oldo Railway, carrying freight to Newport News for expert.

To vis t and describe all the time-mellusust and restored plantations up and down the James River, much less all the 250 homes and gardens which are open in Garden Week, Inaturally impossible. Yet nearly every one has its own distinctive appeal,

Since 1929, Garden Week admission fees have been used to pestore authentic fore; and beauty to grounds and gardens of historic homes and shrines throughout the State.

In persuading so many owners to open their homes and gar lens to the public during the last week in April, the Garden Club of Virghia has beloed to teach many a lesson in patriotism,

Certifics after the 2 grims and Paritans on Englishman Seeks Forgotten Shrines in His Homeland and Theirs

By Sir FVELYN WRENCH

Hall D'a radio to Nationa Georgia Intermeter b. Inchine Steams

S my wife and I drove along a drewsy east-coast toad, we passed a signport directing waylarers to New York and Boston. When we reached New York, its two streets were described. The residents must have been in their fields or imbors preparing a milday meal. The ordy sign of life was a sulitary black cat

We were not in the United States, but in historic Linco ushire, England's grain-producing breadbasket." As we draw on to Boston, one village after another remanded us of name-sakes in New England. The country-ide itself was not much different from landscapes I remothered in Mussachusetts.

More than 300 years after Pilgrims and Poritars set sail for a New World whiterness, I was following their faint time-drifted footprints in the country they lest behard.*

Capt. John Smith Named New England

"This Virgins sister called New England" was how the technibitable and irrepressible Capt. John Smith referred to the territory watch so attracted him when he sailed along its coast in 1614. He adds that it was named New England at his "humble suit by our most gracious Prince Charles" (subsequently Charles I).

In the minds of most of us, Smith's name is usually associated with Virginia rather than with New England; yet the fature of this more northerly region occupied his thoughts during the last decades of his life (pages 700, 705).†

A New England historian has written that in no part of England did be feel so much at non-as at our easiers counties of Suffolk, Essex, and Novinlk. That observation has been confirmed by countless Americans, including United States already stationed at the laurdoot braces in entern hand out.

bomber bases in eastern highauf,

The full significance to Americans of this quiet countryside which looks out across the North Sea to Planders is a matter of more than surface resemblance. Here, hallowed by centuries of occupancy, are villages named blogham. Framlingham, and Decham, and makent Norwich (pages 819, 811, and 829). In the parish registers and mossy remeteries of slumbering English towns one finds names with a familiar American rings fired and, Brewster, Winthrop, Hant (map, page 805). Englishmen, usually cages to enshrine the

names and graves of their memorable dead have but recently turned their attention to these one-time strongholds of Paratanism Even today, few markers commemorate the fact that it was from eastern England that many of New Espland's founders came

Perhaps the growing knowledge that Massachusetts was not wholly unlike their familiar sucroundings beloed prompt these courageous men and women to carry blagtish speech and linglish ways across the Atlantic in their

search for religious tolerance

The landing at Plymouth in 1620, marking the beginning of successful colonization in New Encland, stands also at the end of a lone period of descovery. By the time the Warfener sailed from Plymouth quay with its 102 hopeful Pilgrims, the groundwork had been established for the unique role of the English in the founding of New England.

One is sometimes tempted to believe that Columbus bad the equivalent of a 20th-century public resitions man working in his behalf, so completely have his voyages overshally, columbus did not see the mainland of North America until 1502, on his fourth voyage. Apart from the uncorrebenated landings of Norsemen in the 11th century, the first to set eyes on the North American mainland were men of the Bristol ship Mathew in 1497, led by the temporse navigator, John Calint He may have give as far south as Maine (pages 750 and 757).

Explorers Caught Codfish in Buskets

As Cabot sailed along the shore of Newfoundland, be found coddish so plentiful that they could be second up in baskets. Upon his seturn to king and he informed his Bristol employers that he had reached the country of the Grand Khan, for, like Columbus, Cabot believed the world to be much smaller thro it actually is and assumed that the next cottinent to the west must be 400.

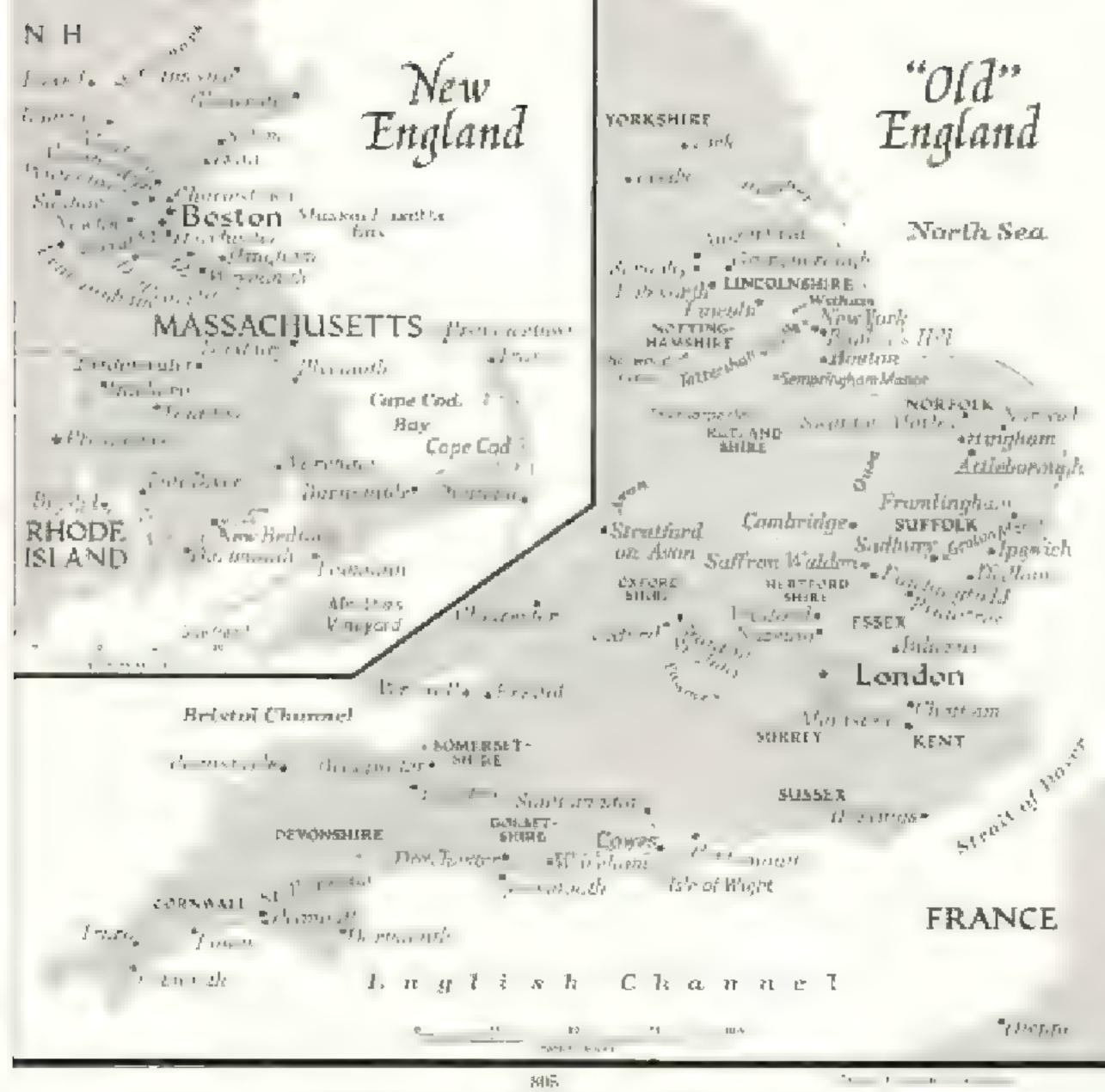
Income are those who claim that the name "America" likely was not derived from that of

*Sec. In the Natural George W. Long. 1 and of the Physics' Princ," by George W. Long. August, 1947; and "Physics Stall Stop of Physicall. (England)," by Maynard Owen Wilhams, July, 194

* See "Inunders of Virginia" by Sir Eyelen Weensh, National Grossaring Magazine, April, 1948.



William Browster, a Lender fine Wayfaca in Pilannia Served as Seconday Positionates. the money contribution for Exercise and the contribution of the Exercise Product Brown Action for the Contribution of the



Drowsy Towns in the Mother Country Store Names with Bastli if New England Upstarts Baselik at 1 to past taming names to their country values. Bartstante became Basestal [c. Franchesham base. Franchesham, but Barton, Physical 4, and some all other names take over parliages.]

other for an Lighteran Color better, Sheriff of Bristol. In Lie capacity as Bristol customs of hiad he paid Cabot the pension of \$20 granted him by Henry VII for his discovery of the mainland of North America. What could be noise natural, Briston tolk ass, than that Cabot, seeking a name for his landfall, should have thought of his powerful sheriff fregot? Of course the weight of evidence is heavily to the contrary.

Between Calest's discovery and the landing at Plymouth, more than 40 younges were made to the New England coast. Most of them gave Fugusamen their first sight of the New Ward. The crewmen of one, captained by George Waymouth and partly financed by

State of the Mind What the Fit of Southamputan, kidneped five Sharets' in 1925 from the Mind of the Single of the

These Indians were not the first to be hard about wessels and taken to lengtand as "evidone" of New World discoveries. A voy to an 1802 returned to Bristol with "three men to ant out of an Hand force beyonde Ireland, the which were clothed in beestes skynnes and are raw pleash and were rule in their demeasure as Beestes."

Washed 3,000 Miles for Help

the first Englishman to traverse New Engund in first, so far as I am aware, was one David Ingram. In 1568 Ingram completed une of the most remarkable walks in history Fogether with about a hundred others, he was dumped ashore near present day l'ampico, on he Gulf of Mexao. With two componium, he made his way by land to a point near present day Samt John, in New Brumwick, Canada, where he was found by a bretten rader.

Infortunately, Ingrum's account of the journey, written years later, exceeded even the bounds of 10th-century credulity. Today historians accept as fact the main elements of als narrative, but discount such passages as a description of elephants "twise as hig as an Horse", ... [with] two teeth or horses of a fonte long growing straight foorth by their nosethrilles" which he claimed to have encountered.

Palgrims Brougat No Fishhooks

James 1, daring whose reign the first successful New England colony was established, had a streak of shrewd common sense. When the appointment of the Pigrim Fathers to settle in the New World was placed before him, the long asked very sensibly.

"It hat profits may arise in the parts to

which they intend to go?

"Fishing," was the reply.

"So G of have my soul, " - in himest trade!

Twas the Apostles' own calling

The Phyrims, if they ever recalled the King's works, probably regretted that they did not pay more attention. Apparently they landed at Phymouth without fishing to kie.

The same thritt which prompted the Plymanth colonists to forego the luxury of books and lines made itself felt by their one cont is with Capt. John Smith. He had offered himself as pilot for their trip to New England. The offer was turned down "to save charges," wrote Smith somewhat arally (page 765).

Bounters Who Never Crossed the Sea

Carlonsly, several of the mer post influential in the early affairs of New England never crossed the Admini

Robert Browne was one of these all-last-furgation actors in the Pilgrim drame. The founder of the Brownists, he became a bery advocate of the right to worship without interference from the State. Had these beparatist views of his not been circulated, the Maydoner might never have salled.

Browne's impopular preachments landed thin in prison repeatedly. He was freed several times through the influence of William Cecil,

Lord Burghley, a metant relation.

Rosert Browne was born at Tolethorpe Hal, in tiny Rutlandshire, almost at the center of England. On one of our visits to the homes and graves of New England's founders, my wife and I took tea with the present occu-

pant of Tolethorpe, who has lived there for 20 years.

We found the austerity of postwar Britain at work in this quet carner of England, too twing to the impossibility of getting domestic telp, our hostess was faced with the prespect of leaving her old home. Temporarily she was keep on things going with the Lelp of a "nampy" who had been with the family for a quarter of a century

To tun an old-fashioned English home practically unuided is a hearthreaking task. A social revolution has taken place in our country during the last two decades; it is said to visit so many historic old homes and find that the families to which they belonged are

row mable to live in them.

In our wandernes we found only two or three houses still occupied by assemblats of New England's founders. For the most part they stand empty, or house institutions or Government departments.

Progress Threatens College "Backs"

No one familiar with American history can strol, a one the 'Backs' of the Colleges of Cambridge—apparently threatened recently by a Ministry of Transport proposal to turn Queen's Road into a main highway—without being strangely moved.

Here we are at the very hirthpute of New England, where the ancient mother begat her histy child. Relieft Browne took his regree here at Corpus Christi College in 1572 and went forth to proclaim the belief that man should get into direct contact with his Maker without human interpretting.

If the tempera, theory of New England began with the explorations of Cabin and Capt. John Smith its spiratual counterpart or a fee of Capt and Smith

Browne, the "fauncer of Congregationalism."

Later comers, too, carried Cambridge barning from Fingland John Robinson, believed pastor of the Palgrans during their first water in Hulland, studied at Corpus Christl, and Roger Williams, four fer of Rhode Island, at Pembroke College.

Emmanuel Culiege holds a particular place of honor in our record. Queen Elizabeth, three to the latest gossip, remarked to Sirve to the latest gossip, remarked to Sirve to the latest gossip.

Walter Mildhuy, its (bander:

thomas to the first ended a Paritim four-

"No, Madam," replied Sir Walter, "but I have set an account which, when it becomes an rak, that alone knows what will be the fruit thereof."

Conny Queen bess had as ne to the heart of the matter. I'mmanuel Chliege became a major instrument in the spread of Philian dectrine.



From This Quay the Washence Carried Physicalla Same to Two Dozen Dambter Tewas



A Markagas Midel Historia Carrel at Boston, England

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Bostoc's Noble Lanters Traves Witnessed . Pilgeno Attempt to Except to A Mand

Become to the formal and the hours we get the book of an experience of the first of the second of the formal and the formal an



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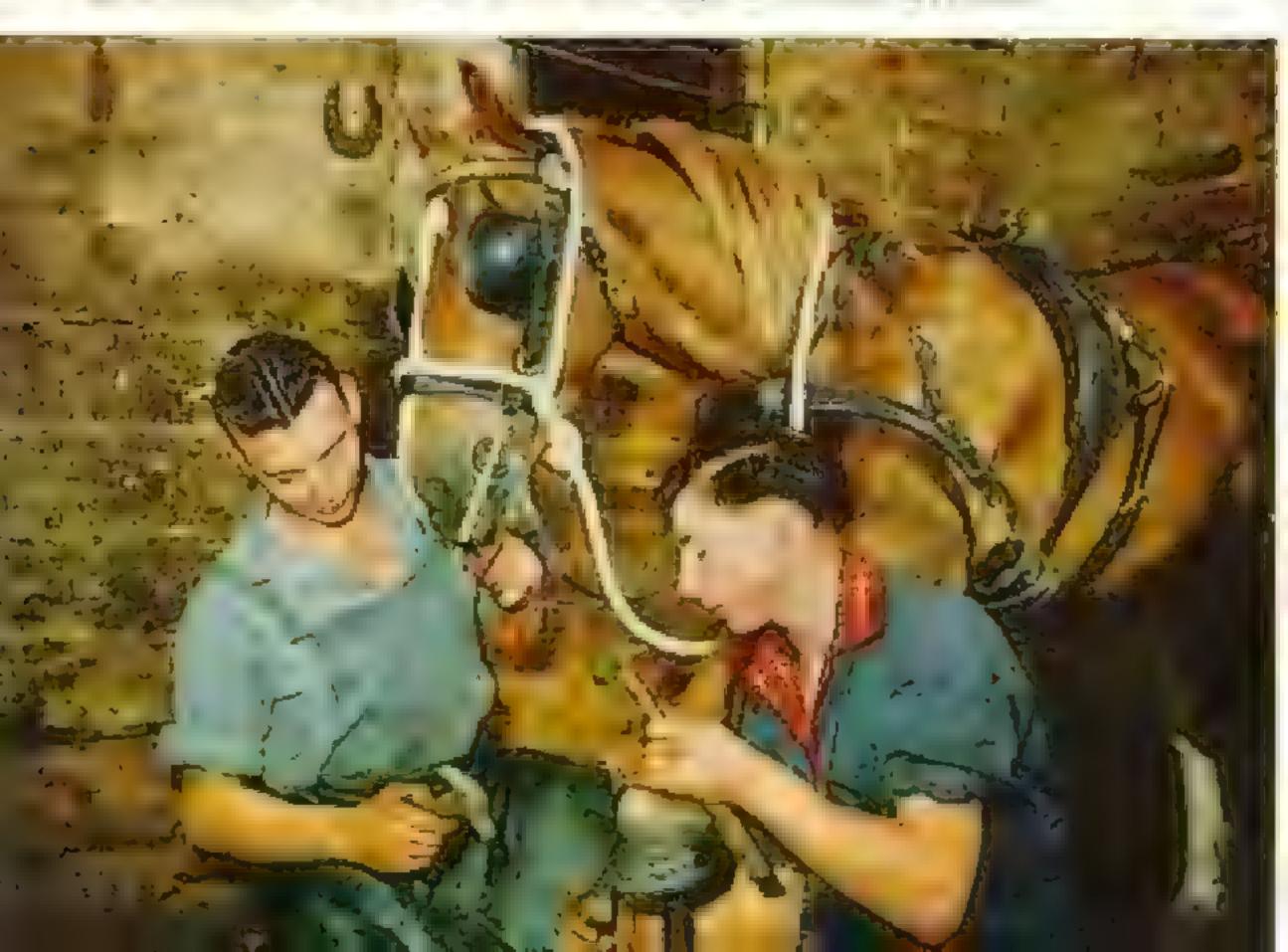
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Rura, Craftsmen Practice Old Sallie: A Counge Gets a Roof, Dobbin a Shoe

But the same the same the first and the same the same the same that the same that the same the same the same the same that the



One of the best-known graduates of Emtransiel—a fruit of Sit Wir ter Mildinay's Luman oak-was John Harvard, founder of Fifth by a classical

Emmanuel cent many pioneers to New England: Thomas Elwler, a founder of Hartforce Connecticut; Thomas Shepard, pastor of Combridge, Massachusetts, apparently a triend of John Harwird; William Bacton (Blackstone), first E-ropean to lice where Boston now stands; Nathaniel Ward, author of The Simple Cabler of Aggazonic in Amerher and framer of the first code at laws in New England: Same Bradstreet, who salled with Winthfug, and many others.

My wife and I spent some happy spring Jays visiting the Colleges at Cambridge. The friendly porter at Emmanuel, we mug a tophat a welcome sight to an old Etonkin, but even at my conservative nime muter the "topper" is no longer compulsory—took as rider his wing. He showed as the rooms

named in brown of John Harvard

We looked not on Laws alight with done ing datiodils. Fruit trees were blussiming, and we thought of Browning's words about the delights of being in Eugland in April. An A perican and an English officer, both in uni-(rem, wandered past us on a sightseeing tour

Stratford Has New England Link

Stratford on Aven, 30 miles west of Cambringe, with its memorials to England's greatest a ram itist, also has a connect on with New English, Thage 8331. Not far from the house in which Shakespeare was hern is the builtinniered home of Jaim Harvard's mother. Katherine Rogers. Presented to Harvard Culversity at 1909 as a rendezends for American visiture the building is dated 1596. Al proprintely, studends at the American university are admitted free of charge. One of the treasures presented in the house is Jefferson Davis s walking stude!

Next in our Filgran quest we answed a handred miles northwest of Combridge, to the Scroolig district. Here, clustered around the northernmost tip of Northighamsburg, are the han lets in which William Brewster and William literatord there at Austrobel across the Yorkshire burder) developed the views which less them to set out for America in 1920, These were the boylesod hannes of the menwho founded the first successful New England calony—the Pilgrim Lathers who sailed in the

Marthuerr to Phymreth (page 518)

Instead of sturing at berody value, I preferred going direct to the little church of Bat worth on its wooded hilltop a few nules to to sucheast. It was to bal worth Church rill C. Lam Bridford and the brewsters --William, Mary, and little Josethon—used to walk from Sezooby and rear by Austerfield. Here they listened to the "grave & reverend premier," Sichard Clyfton, by whom they were so deeply attend.

Clyfton is one of the few early Separatists whise apprexime we can plature. He is destressed as a "good and fatherly old man, having a great white bear !." He was the rottly

THERE'S

though his teachings profoundly inductional the Pilgtan congregations of the Scrooby district in their growing differentiation to escupe from persecution, Richard Clyfton was anther of the founders of New England who never crossed the Atlantic He died in 1610. during the self-imposed exile of lds flock in Holland

Search for an Elusive Key

The approach to Habworth is all that rue's entry into Edwin Land should be. We left the main foud and followed a path to the hiltup across a field of waving wheat,

On the locked door of the little church was a notice: "The key can be obtained from Babworth post office," from which we had just

Buk we went, cown a fare to the ovy-clair "Village," Whith rousists of two houses. The near istress dense i all knowledge of the key and said we should apply to the shorth custodian, who lived in the coffage on the other side of the road. Our hanging on his doors aronsed no one.

Two way jurers suggested that we re-climb the tale and apply at the manor house. This time we were more furturate. We pulled an a d-fashioned bell in the lack yand. Its clang reverberated through the building, to the apparent and usement of a friendly Jackdaw perched bear Ly.

We got our key and made our way again to the chapth—to find no tablet or market whatever to inform the wisibor that this for gotten corner of Nottinghamshire had played so important a tole in the Pilgrim story,

Serooby In Heart of Pilgrim Land

acronby, like Halaworth, accepts its fame with indifference. It was here that William Brewster succeeded his father as ' postmaster," a job that also entailed supply a proses to travelers in the Great North Road (page 804).

All of Scroolly speaks to us of Brewster, who I sed "in good esteem amorgst his friends and we pentioners of those parts, especially

the godly & reaguns."

Before baying the heart of Pilgrim Land we stopped to see the old church at Austerfield. three miles away, where the record of William Bradford's haptism is preserved.

Gainstorough, air last fall, is clasely con-

nected with the Pilgrim story. Its congregation migrated 13 Holland alread of the Scrool y group. It was to Gunsborog, h's nurket that young farmer Bradferd took his chooses and would for sale, and William Brewster probably cause there on market days to buy borses for his 'post' work,

From Gain-horough we went south again, through Lincoln, to two namesakes of great A perion cities. We hoped to retrace along this mute the first flight of the Scroolsy congregation in its efforts to escape the "harry-

ngs" of King Jana s

We found I impolify sparing for this eathedral or the again in possession of its copy of the Magna Carta the finest of the four in anistence (mee 8.54). This is the document of freedom which so many Americans saw at the Now York Warra - Dair in 1930-40 Muring the war the jet class rectangle of purchasent was safeguarded in the Library of Congress in Washington D. C.

It was in Line in during World Was I that the first modern armored vehicles—oubled tor's swere made secretly for trial on the Western Front

New York to Bostons & Wiles

From Lincoln my wife and I drove through New York's deserter, main struct and eight miles farther to Boston (page 825). It was from rid Buston on England's North Sea coast, that the congregation of Scrooby made its first afterupt to escape to Holland and religious (mediant,

Old Bost us-the name is derived from botolph's Town '-has other links with the New World, In Mr. B to liph's Church a tubet renauds visiting Americans that five men coanse led with the town subsequently became governors of Massachusetts: Richard Bellingpara, Thomas I builey, Smon bradstreet, John Leverett, and Fram's Bernard (808, 809).

Another bond between the two Bostons is the fact that John Cotton was vicar here for many years before he crossed the Atlantic to become the 'patrianch of New England'

In recognitions of their debt, generous New Emphatel Diebels of old Baston in 1931 paid for the restoration of the tower of St. Rotolph's Church—Boston Stump—and the recasting of its bells,

In the Gallelall we saw the trap door in the floor through which Elder Brewster and his companions emerged into the coartrongs from vells below. They had been imprisoned f # their first attempt to escape from England, in 1007. They had secretly boarded a vessel chartered to take them to Holynd, but its captain latrayed them, to the authorities Lacking exit permits, they were promptly put in prisur (page 832).

Fortunately for the history of Massachusetts, the Boston authorities eventually rereased liteir charges. In the spring of 1608, ofter great difficulties, the Scroolly congregation succeeded in teaching Amsterdam in a Datch vescel.

The Scrooby Pilgrims spent twelve years in Holland. Then, party for fear that their children might become confused in the welter of sects which throve on But the tolerance, they determined to seek a new borne in the wisternees of America

By the time the little group was finally about the Marylewer at Plymouth, England, with the permission of their King (if not with his blessing), the Elignius numbered 102 tpage 8071. Some of the newconters were Lordoners: others—among them John Alden -came from the eastern countres which were later to send so many columnsts to New England

The little Pilgritt band survived its first winter of terreble bardships to become the urst permarent New England colony, Bur there were other hardy Englishmen not far believe them. During the next 10 years several small groups of settlers read ed the coast actors the arrival, in 1630, of the first really large-scale migration under John Winthrap

Lake Winthorp's 700 pioneers, who made up the Massachusetts Rav Colony, many of the sau lier groups were Paritans, impelled utit of England at least in part by religious

the street of

tiddly enough, when the Pilerons had secased their footbald at Plymouth under the guidance of the elders of Scrooby, they detues to others the very rights for which they had crossed the Atlantic. In their part of Massachusetts there was little room for anyone who would not conform to the nonconformity of the Separatists. Even the Parities. wese mutakters.

Pilgrims Outraged by Merry stount

This strictness makes all the more remark at a the goings on at Merrymount, 50 miles

awdv.

Is 1625 Humas Monton-lawyer, of Clifford's Inn. London, and reputedly an Unford graduates-settled at Mount Widhiston (new Quincy), Massachusetts. Later, when most of his fellows moves, to Virginia, Morton took the leadership of the colony and renamed at "Ma-re Mount"-Mountain by the Sea. The strait-acced Pilgrims, with reason, classe to anderstand the name as "Merce Mount"

Morton had not come to New England for the sake of his sock. He had no quarrel with the Church of brighted. He was devoted to sport, and life in the open appealed to him.

At Merrymsiant, Morton crested an 83-



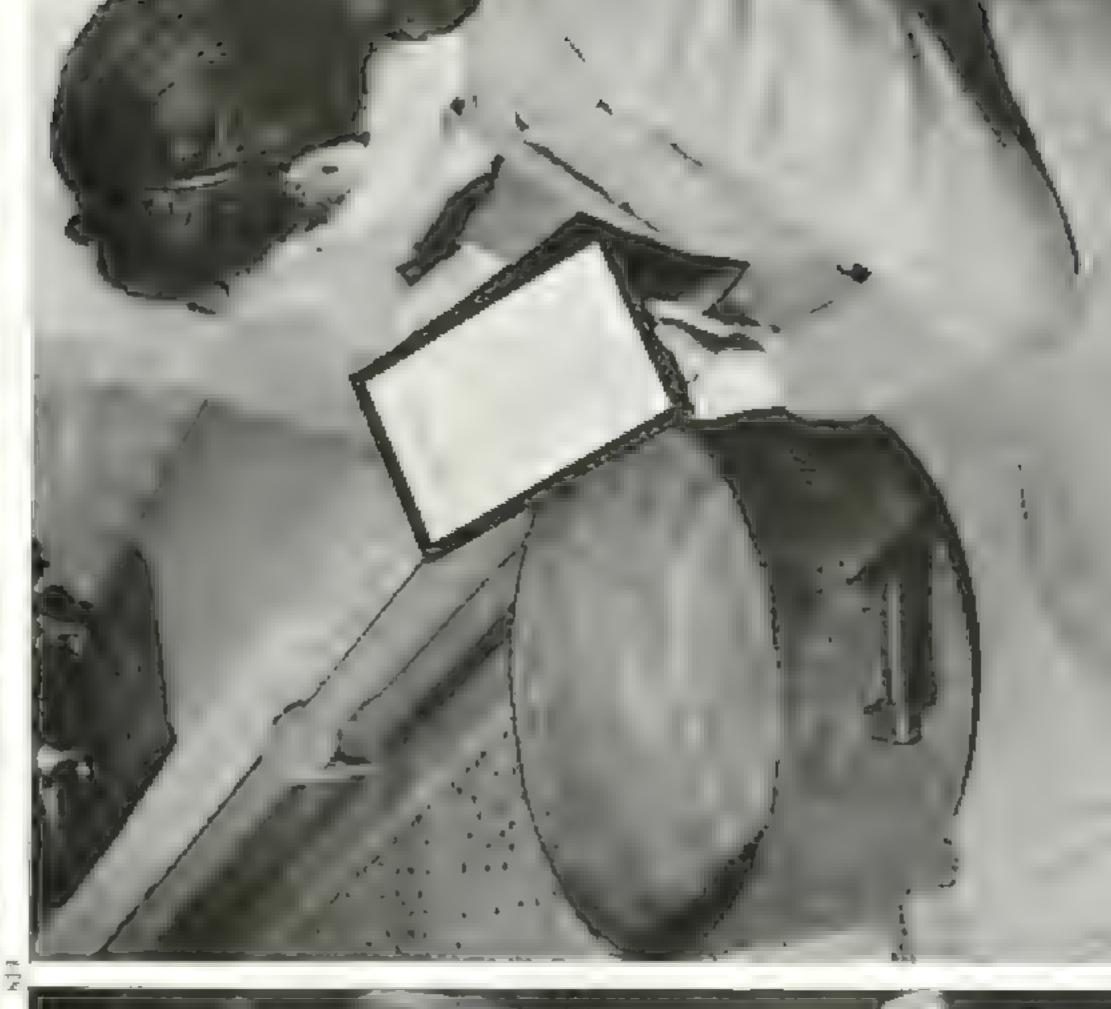
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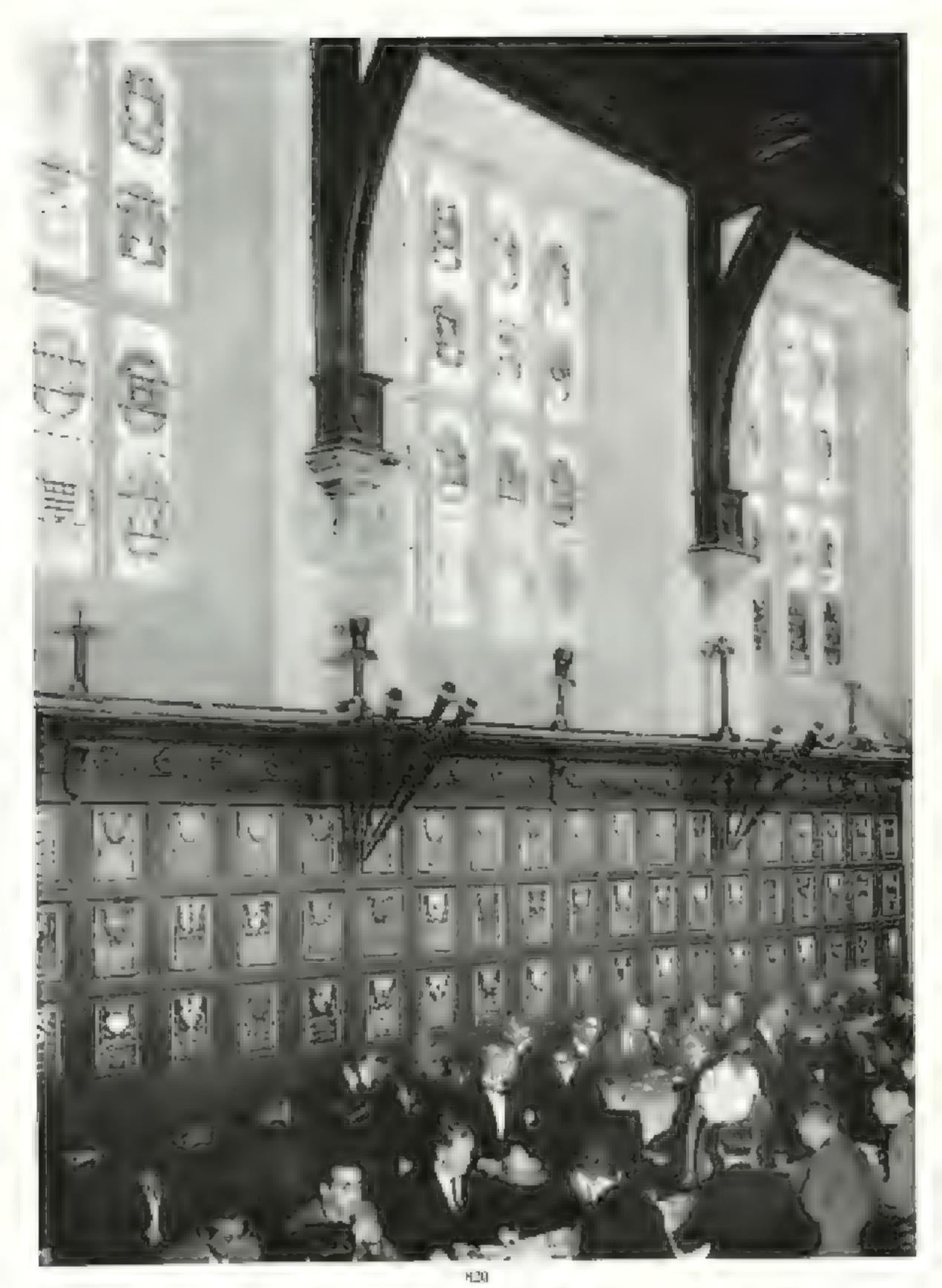


Mark of the North Limbersh Formbress margine Researces of Seconds & told Marior Oberthe Home of Well, or Brewsler

We as the the town kept who were Reterring to a march both a fact to wing to a march of the mark better a date of the thirth of the south Bashes of the company of the contract of the c Perturbably followers and body and the a An extension of the last of the old make and The british mel to a hot Mary by his







Middle Tempse [La] Landon, Resounded to Shekespeare's Lines in 1902

The first that the first the first the first that the first the fi

foot Maypole, around which he and his comparons, "inviting the Indean women, for their consorts, dancing and frisking togither," according to the grum-Lling Pilgrims, fudulated in "ye brastly practises of ye much Bacchinalians." A Irland of Ben Junean and doubtless a devoted cushment of Landon's robicking Merrank! Tavers, Morton saw no reason to give up the gay lift jas. because his neighbors were soher-sided.

"Captaine Shrimpe" Takes Commund

The Pilgrim Fathers might have turnet, a blind eye had Morton and his couples conined their attention to Ipcian girls and "quaffing & drinking both withe & strong waters in great exsess." But Mortan also used questionally methods to make money. He sold fregues to the indians. in return for aboute fore worth far nore than the "common" heaver used as surrency in the province.

the la man the constituents and teaching the teaching the

In the ensking "attle of Merrymount"—
in which the only casualty occurred when one
of Marton's men "cane his owne nose upon
ye pointe of a sword"—Morton was captured
and later shipped off to England.

This whole sequence of events must have provided deep satisfaction for Standish, who thus had his revenge for the decisive nick-mone, "Captaine Shrimpe," given him by the provenent M rion

Mine bost of Maste Mount' tarned up again in New England, apparently unsignered. Trade in firearms and "strong within the Sas Indian

the State of the Land of the Maxpole was felled. Mortion's house was burned



Abe Lincoln's Ancestors Came from Hingham, Norfolk

Robert Lincoln, the President's carbest known terchest, and in Handson about 543. More than 200 from that vicinity congreted to the Massichusetts face Colony. They imfor a Samuel Limbia, who came to Salem in 1635. Bust and plane to Emalam a church bon is the Emalarity and.

before his over, and he was sent pucking again to England.

Morton's stay ands on a patactle note After a period at home working for Sir Ferdinando Gorges, 'the founder of Maine,' Morton drifted back to New Plymouth where for a few weeks he lived "moundly at four th lings per week and contents to draske water."

In adversity his love of sport persisted. He excited the wrath of My es Statedish "by was being gun in hand over the Doshury matches

Spent his remaining years in Maine.

Even this scapegraed among New Englands of a poless contributed his but. Morton's book, New Jonghah Canaan, or New Canaan, a standard of New England (1637), in which he mercilessly pillowed the sincle' of Plymouth, was hailed by a contemporary as "the truest description of New

England, as it then was, that ever I saw," More a acquired another monument when the contemporary American composer Howard Hanson based an opera on Nathaniel Haw-thorne's short story, The Maybele of Morey Mount. The opera, Morey Mount, was pre-

Mount The opera, Merry Mount, was presented six times at New York City's Metropolitan there is the 1933-34 season.

Sir Fertinando Garges, Morton's sometime friend, is a mesture man of early New England history. Surprisingly Little is larown of his private life, although we are familiar with his public career. Of Norman descent, the Garges family lived at Wiescall, Sometsekshire.

the Atlantic than the Azores. For 40 years, however, his preoccupation was with the colonization of America. His interest was wnetted by such incidents as the adoption into his own family of three of the captive Indians brought from Maine by Waymouth in 1605. The civility of these "Salvages," Gorges wrote, was "intre from the radenesse of our countries people."

In the last years of Earsabeth's reign Fertinendo involved bimself in the Essex 1 lot against the Queen and was hicky to get off with his life. In preson he had any le time to think out his plans for colonial development.

Gorges was sted to found just such a colony as one would expect of an Edzabethan courtier. I riske the liggroup, for herdmando was a supporter of the Crown and the Established Church. He had classorate plans for a greatility in Maine, to be called Gorgeons. There was to be a may r and a bound of councilors. The government was to be modeled on the England of the Stuarts.

War Southed "Dream City" Plans

After years of disappoint news as a failures, Gorges received a charter in April, 1635. At that time more than 70 years of ago, he proposed to go to the New World to preside in

person over his product

Perhaps it was just as well for the internal peace of the colon is that the Civil War ho ke not in brailing. King Charles are, his supporters, among them for her linamio, in to ther fish to fry, and there was no time for furthering grandings schemes for New Lagland colonization. Had a royal government been established in Mane, Gorges's tule "of the Lord Proprietor, and by the Lord Proprietor, and by the Lord Proprietor, and by the Lord Proprietor, with the neighboring Colony of Massachuse.

The only place in now wanderings where I found a memoria, to Sir Ferdinando is the Church of St. Budeaux, four unles northwest of Plymouth, where a facet was erected, appropriately on right, by the attizens of Maine.

Though his present our colonization schemes came to nothing. New England rentablets thought with gratifiede for the voyages of exploration to promoted.

At first, schemes for large state tolomization of Massachusetts fared little better than dia Six Ferdinando's ambitious plan for Maine In 1620 the Harchester Accenturers, a group of Paritans with an eye for business, gave up their idea of establishing settlements of has lish fisherfolk on the New England coast. The Dorchester investors learned to their of row that "sarely any Elshermen will worke at Land, neither are Hasbandmen by for Places men but with long use and experience."

The Great Bay Cideny Gets les Start

Farturately, one among the Adventurers had not joined for prefit. This was the Reverend John White, rector of Dorchester. Datessed by growing unemp oyment in England. White some in the colonies a possibility for telef. Mareover, he hoped that new areas of North America might be a sened to Protestant evangelising, as a counterweight to the Jesuits of Canada.

"Being greeved in his spirit that so good a work dreald be suffered to fail to the ground," White promised a new hard grant and fresh support if the har ful of col masts remained.

would charge to their for thold-

The rector of D wichester appealed to power-ful friends in his effort to find new backers for the fultering colony. By 1629 there were both usately and a charter, issued in the name of the "Governor and Company of the Massachusetts Bay in New Engand," Historian Sunnel Edot Morison poins that this very document, taken to New England in 1630 by Winthrop, served for more than 50 years as the constitution of the Massachusetts Bay the constitution of the Massachusetts Bay

We be growing in Stanton St. John, Oxfordshire, a few miles from Oxford University. The same hapse in which he was born at 1525 still looks across the steep main street of the village to a 13th century parish church in which his haptismal record is preserved.

He was one of those wan bade gods and to Wint wop a expedition when it set out for Massachusetta Bay in 1030. But the Gorges he never emigrated to the will lerness to which he had so long devoted has energies.

Jobless Puritum Led Expedition

White and up 1645. Mans con the ancient a memorial transit was proved by linguistic the south posch of St. I det a Church in Dorchester Dorsetshire. Only by degrees have we realized the extent of our matchesters to the "patriatria of Dorchester."

It is not known why the leadership of the



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Children Listen to a Pilgeim Tale in Chautry House, Whate Machiner Voyagere Assembled by the best of the rate of the rate of the parameter that types the rate of the rate of matter than a fine of the rate of th



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A Major Oak Survices in Sherword Parest

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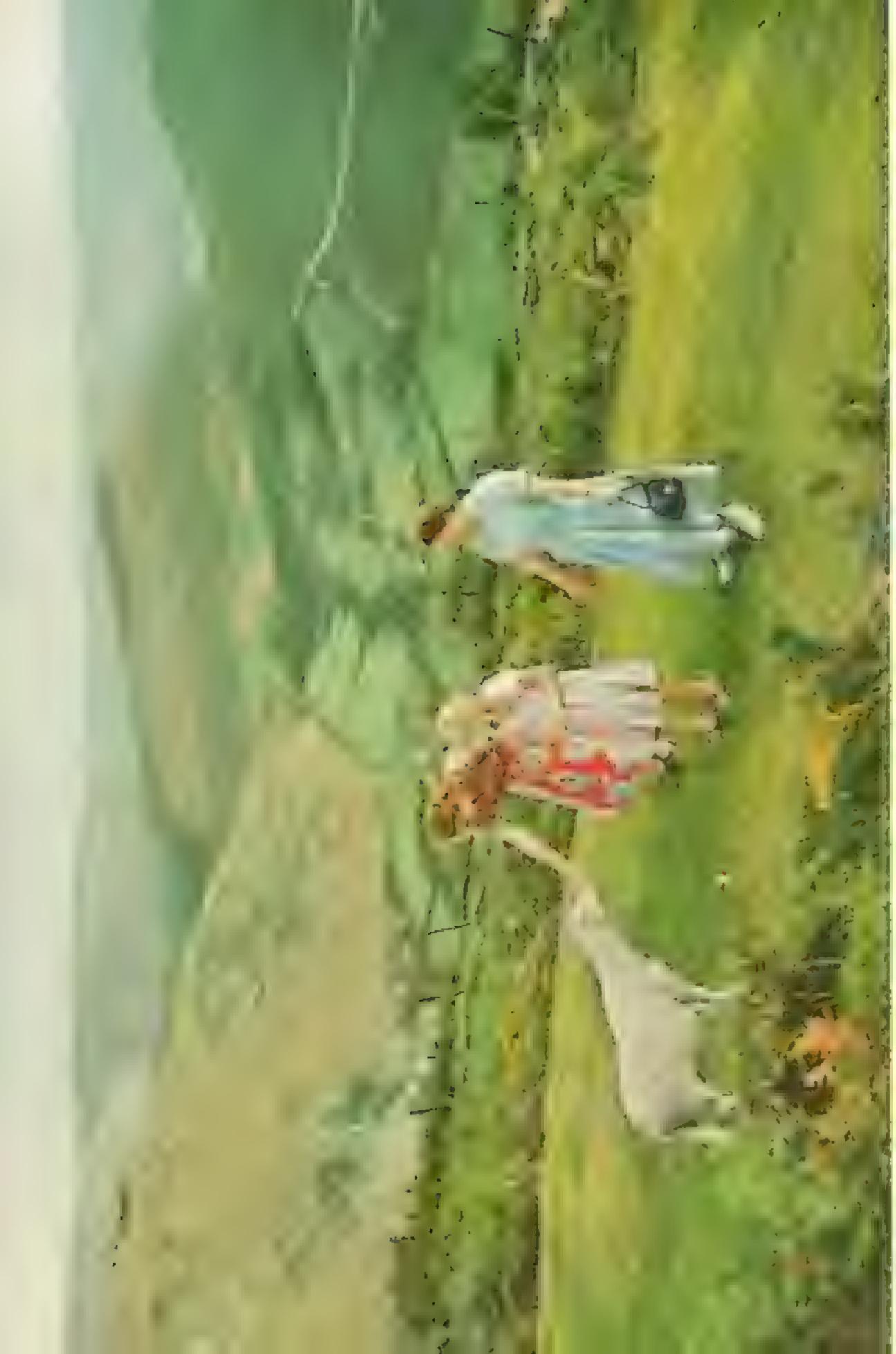
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Massachusens Bay venture was chered to John Witthrop. A combination of circumstances prompted Whithrop to accept. His family was Puritan, and he forestaw greater troubles than those which had driven the Pilgrims to easle in America.

"I am verily persuaded," he wrote in 1629, "Coal will bringe some heavye Athetian upon

this lands, and that speedyly

As a known Puritan, Winthrop lost his attemptic at the Court of Wards and Liveries, by which he earned a comfortable income. There remained little promise for him in a Merrie England increasingly preoccupied with ricrous living and "keeping up with the Joneses."

Is his determination to move to America grew, Winthrop's efforts on behalf of the Massachusetts Bay Colony Increased. He rode often it Louron for consultations on forance and organization; to Cambridge, estadel of the Paritan falth, with which he always had strong links; and to the friendly atmosphere of Sempringham Manor and 15th-century Tathershall Castle, the two residences of the Earl of Lincoln.

Few castles in our island are as closely connected with New England as Tattershall. Its massive brick tower, with walls 16 feet thick in places, dominates the landscape 11 miles northwest of Eleston (page \$30). Here, on fer the patronage of the Earl of Lincoln, the great exacts was discussed.

Two starting anovations grew out of these talks. One was that the sponsors should themselves emigrate to Massachusetts, and not send the bands of fisherfolk and adventurers that had proved the weak link before. The other irrea, and it was a during one for the time, was that the seat of government of the Massachusetts!

Bay Colony Wins Serf-Rule

On August 29, 1629, promoters of the Bay Colony met at a General Court of the Massuchusetts Bay Company, probably at the home of Matthew Cradock, London investor, Deputy Governor Thomas Goffe put to the group a fateful decision, recorded thus:

"As many of you as desire to have the pattent and the government of the planarion to be transferred to New England, see as it may bee done legally, hold up your hands."

After a pause he added,

The chairman then spoke the momentous words. "The ayes have it."

The establishment of the Massachusetts Buy Colony as a semi-independent territory

was assured.

Winthrop's remaining munths in England

were devoted to preparations for the migration. The Isle of Wight was to be the point of departure for these founders of Massachasetts, as it would later be for Maryland's forefathers. It was have, shown the ship Arbella, that Winthrop began his famous journal—"the most precious chronicle of the Bay Colony" which he carried on notil his death.

To Mrs. Winthrop fell the difficult task of remaining at Groton Minnor, in Suffish, until it was sold. In a fitted letter to his "14 this and their write," composed "aboard the Ar-Iella, tydings at the Cowes march 28, 1650," Winthrop wrote that on "mundayes and frydayes, at 5: of the clocke at night, we shall meet in spiritt till we meet in person."

Emigennts Shared Ships with Livestock

The sailing of the Winthrop expedition in 1030 was completely unlike that of the little May down a decade before, with its bandful of as prehensive and all but penniless Pilerims between well-found ships, carrying some 700 persons, set out for Massachusetts. In addition to their precious human cargo, the vessels carried cattle and horses; at least one brought a family dog to the New World.

Other ships followed, and by year's end the English-speaking pripulath it of Massachusetts was three times that of Plymouth. Under Winthin p's leanership the colonists established themselves in localities which became the towns of Boston, Charlestown, Medford, Wasterbown, Lynn, Roxbury, and Drachester.

William Hubbard, early historian of the Colony, sures up I the Winthrop's life as that of a man who "spent not ordy his whole estate... but his boddy strength and life, in the service of his country; not sparing, but always as the burning torch, spending."

Hubbard himself is of particular interest to members of the National Geographic Society. He was the direct ancestor of Gardiner Greene Hubbard, one of the founders of The Society and its first president from 1888 annihis death in 1897.

One of the saddest incidents in the settlement of Massachusetts was the death of Lady Arbella Johnson and her young hashand shortly after their arrival. It was Lady Arbella for whom Winthrop named the flagship of his fleet.

The Johnsons, together with the Saltonstall, Mudley, and Braristreet families, were among the first to declare themselves in favor of emigrating to the New World. The early sostonans were so fond of Jahnson that for a long time afterward they would ask to be buried as near his grave as possible.

Another Paritan woman almost the Arbetta was Anne Bradstreet. Mistress Empleteer must have been a remarkable woman. She



England's Busines Resignating Workers Chayle Where Pilgrup Dathers Once Were Joiled

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I could not eat the bread made from we make—but from we make—but from I find it we a good It makes a very whole worse portidise—we have functed in a ca, and have planted some pointies.

t less Brewster is no coost health, but his hale to white like ye snow. I see and Wrestling Brewster are both married, and see the first first.

brewster a sors were to be a consumption of the break material with the confidence of the best of the confidence of the

Mistress Fletcher conchilded her letter: "I think a woman should always look faire to her lord—so I pusy this you will the him of moth—send for its taffing -kert."

In the country of hit of paper recolored to had to the communities of New
England may not have been no leatent from
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Boston's Pilest Tirce Residents.

The remessive of that little for ten our lively, and a North Sea co. It to what I what the formation referred quickly because a feed point for New Eagland life.

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When the Winthrop is a client according Baxton's little mouse was a mowhere near in-



Chain and Locked Clase Proteon Strutford's Barre

Shakesprare lies buried in Holy Trimby Church where this 1617 Holl at a country to the first where this 1617 Holl at a country to the first of buries in the same of her son, Jelin Harvard (page 215).

outner (f Bearon and Spruce Streets in passon day Beston | frete to live a training and the with his preclou | Line | file; tes and goats, his roses and vecetables. Around his on Beacon Hill he could gather will straw sorres, bluebernes, and grapes. From his lad an friends he could of tain ovsters, clambard laborar

Him a the trace of the located newinpupular with many of the located newcourts. Probably the fact that he wore his do not a gown' did not improve matters. Moreover, he seemed to prefer the comparaof the Indiana to that of his fellow Fig. she

Vited the Paritian swarm bud planted its towns across the Ray Culony—changing the name of Rayton's own Shawmat to Roston—be must often have thought of the days when he had Beacon Hill to himself. Boston was full of Culos and Boys sporting up and downe, with a continued concourse of people.



was que tile ver to batal le the minerant describes le Madiner e bury High Street, Guards One of Lushind's Most Prized Possessions, the Magna Carta 1. Beech & Carnedad, Whose Charles

Homebulkers of Seeluded Fundang oil, in Popland's Perule Fosex County, Await Their May Bess A technism of my described & with my as then



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oth Old and New Testaments, produced at the older on the only printing press in the

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there is no mery who came to her rise before him. I hiot was born in Essex. I visited be birthplace in Nascing. and the attractive charch in Widford, across the border in Hertferdshire, where he was baptized. The title charch we are a little charch with the little charch we are a little charch with the little charch we have a little charch with the little charch we are a little charch with the little charch wi

Lincoln's Ancestor Souled in Hingham

John Eliot must have been a lovable old man. Conservative in his ways be extented the wearing of wige, which is reason as aboutful on unseemble in 'c sielt of think of him ever or woold age, retaining his quant mane at the b Cotton Mather records a bit for up there is a read to be God. I here it do if the God.



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Ipswieb's "Ancient House," Built in 1517. Has an India Lat No Ager dum"

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Hare a dieda time is a latte igled greek and breken wave, a glassig wernand bethe keradory a New England While Blasts Teach Civilians and Siddlers Survival in Atomic War the Sagebrush State Takes the Spectacular Tests in Stelle

BY SAMELL W. MATTHEWS.

National Geographic Magazine Staff

GAINST nights last darkness on the Nevada desert, a laint green land of dawn framed jugged manutains to the rast.

Sundenly a siren sounded, rising in uranwy,

higher and higher.

"It is now it minus two minutes," loadspeakers blaced, "Kneel down in your trench. Look down. Brace yourself against the forward wall"

Two miles out across the flat, a bright whote light shone from the top of a 300-foot t west. It that point, the 23d atomic explosion within the United States was a hundred-odd seconds away.

"I do to the said abruptly into the gloom. "I'm

ountell"

Sgt Tom Radtke of Chicago, six years in the Regular Army, spoke for about 1,500 of us on have sand larges in our narrow brancows.

"Trembling Twenty," Climest Reporters

A few minutes before, the loud-speaker voice had sah, "Good morning, gentlemen. Wel-come to Yurca List, vailey where the trial mas mosnes grow...,

"The detoration you will withres today is a root what the survivors of Hiroshims saw is 1945. It will be closer to you than any such detoration has ever been to Americans."

We had received many other briefings. I was one of 20 newspaper, radio, and magazine representatives accompanying 850 soldiers and approximately 600 officer observers into entremember twice as close to the forthcoming blast as men ever had dehoemately gone before. My name had been drawn from a but for the chance to be there, two miles from an atomic explosion.

The Transling Twent, we had been to then of Extinction

Price and light of there pots, after only three boars' sleep, we had boarded a bus at am at the Sixth Army's Camp Desert Rock,

25-n de ride into the heart of the U.S. Atomic Energy Cammission's Nevada Proving Ground.

The curry winked and twisted among month hills, past the white expanse of Frenchman Flat, through Yucca Pass, to be stopped finally by military policemen with glowing electric but us.

We standded out into darkness speckler by bondres among the brush, where waiting sodiess warmed themselves in the latter coldnight

Loose powdery dust pailed beneath our feet. Canteens and harnets jingled as we walked.

Platonns and companies compaising the simulated atomic artack force spread along a d thic line of trenches built a naice in either direction from command and observer posts.

Many of the men in the trenches had come to Camp Desert Rock directly from Kotean fighting.

Cpl. Frederick Jin, a Chinese American, had been in Korea for nearly a year. He laughed when I asked him which he preferred

"I don't think any of us are sorry were mete." he said. "The Thing out there . . . I dille to see it."

Any one for Las Vegase" some one is of "Seems pretty close here, doesn't it is a softier muttered.

"You should be in those homes, lab!"

Test Houset Await Mumeat of Donn.

Our to the right, I ghts marked two isolated frame houses built by Civil Delense planners within the predicted blast range of the "nu clear device" on the tower. The stood two-taleds of a mile from the explosion point (page \$46), the other 1,4 miles away.

With 'Milton Able 1' Company, 3d Platown, I took my place in a 5-foot-deer, 2-foot-wide slit cut into the desert floor. The sides were braced by the paper, chicken wire, and tunber. Sandongs liked the hps (page 842)

The siren howled just behind us. We knell in the dust, heads down, muscles tense

'if many 30 seconds." The signals can elibrough miles of wire from the Control Paul, nerve center of a network of communication systems, nuternatic switches, and recording instruments all across Yurca but *

"H minus 20 secunds." I took a deep breath. The 'count down" of seconds begin "Zero minus ten ... nine ... e lit

. four . . three . t . .

Half-night in the trench turned suddenly into blimiting, pure-white moon. It was in

* See Historical Map of the United States, a supplement to this assist



541

Observers Listen to an Army Briefing on the "St. Par" Non & Blass

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Ground Shukes, but No Sound-Yet

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The spreading mustroom became bright por Partle shales to lavender, orang three latter rose, and the base folded and overlapped in great a listant waves of could

the higher and higher the cloud bodied against the hight plue-green of dawn. On the very summit he crystals formed, cascading over the rim like pure-white surf in the sa

The towering call our adhousetted solution limits of the trepulses into the mark of the Call, and the thing the different was it was it

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Within 24 hours this cloud, carrying its spiriting radioactive particles, we have an kest across it is h. Colorado, but we will into southern Ohio. Airbort e and ground teams would hellow it with delicate instruments. Iracking "falls ut"—the descent of the "hast" particles back to earth.

On the proving ground, from believelers



Atomic Daven, Many Lines Norms Brightness, Greets a Nevada Lemily 20 Miles Away

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throughout both hours, were found thing to the flour, chipped or its red into posidery pieces by dying guass and rebris this in experimental base next shelters were the mannequins to harmed (page 5 to 1).

Dramette Lesson in Civil Defense

This dramatic destruction may serve a
major projesse in saleguarding American
homes—ground data obtrited on the atomic
proving ground, Civil
Defease engineers can
better evaluate and prepare against the awird
damage of an atomic attack,

family and public shelters may be one result. The Army is proving that human beings properly dug in and protected, can survive atomic blasts at quite atomic blasts at quite

Yet st helicopartiato as by the Department of Defense and the Federal Civil Defense Adultistration are secondary to the main purpose of the Atomic Energy

Commission in Nevada - Its poal is to provide better weapons to ensure America's ascurity against attack.

I'm Nove a Proving Ground lies in one at the foucliest and most inhuspitable recens a the country. The site was established only after careful study and whitespread search for the best location.

When 1951 opened, America had fired only ope atomic bomb within it own between 19 blast near Alamogordo, New Mexico, on Tele 16, 1945.

I wo bombs and been dropped over Japan I wo were tested at B kind Atoll in the Mar of Islands in 1946. Two years later Eniwetok Atoll Lecame a permatent Pacific Proving Ground for atomic tests of weapons of advanced power and development

but an atomic fring range closer to selectific laboratories withou the United States was needed to avoid the cost and time of sensing all test operations for out into the Pacific

There are stages in development of a new



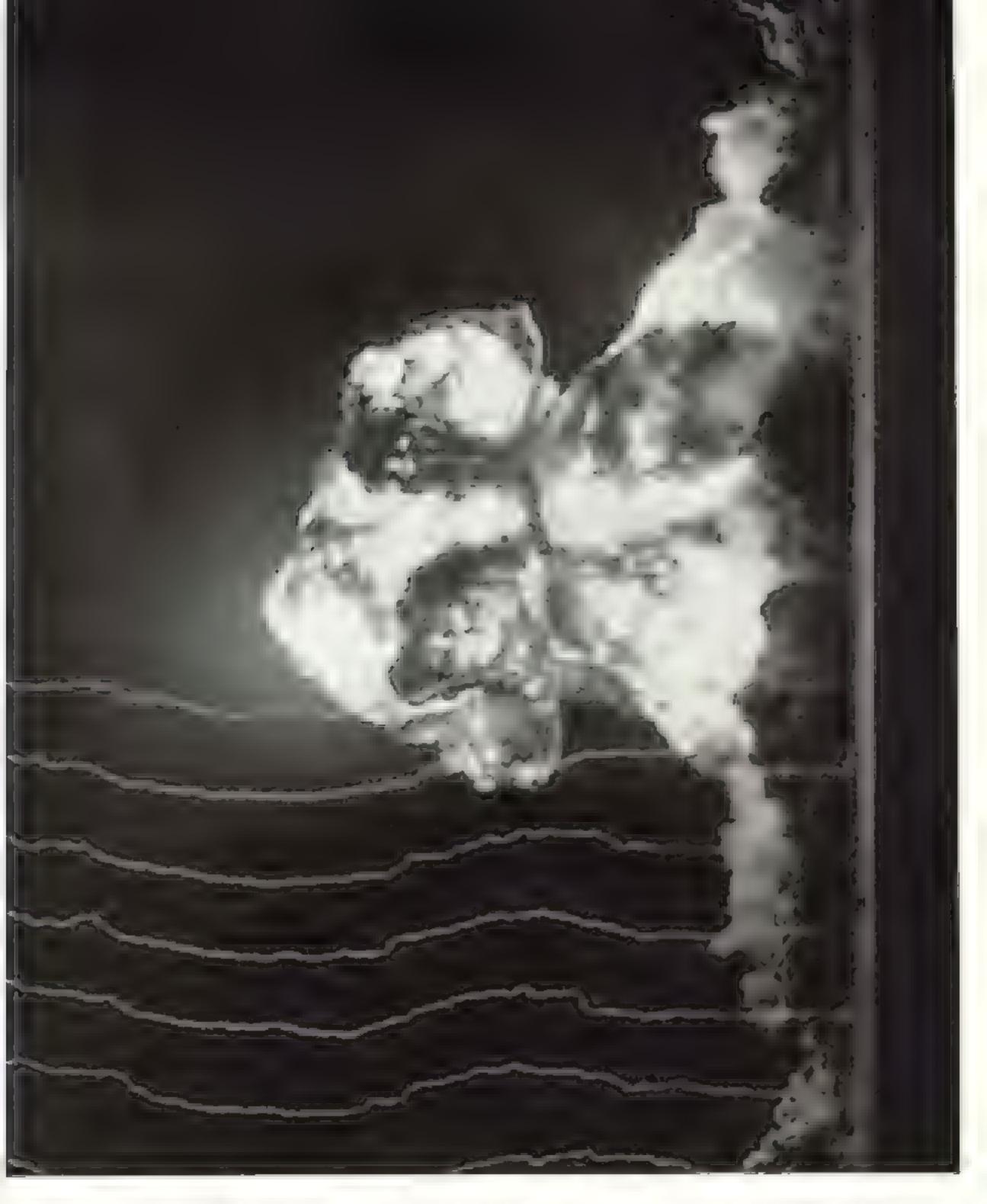
Cadillac's Dunmy Driver Barely Escaped Crushing

The state burned reasons on a state at make to bunkling the Lopice to the state of the state of

weapon when only actual detentation can prove or disprove some new principle or disign. Test as most powerful atomic bombs are test a exploded in Nevada. Instead, the Marie Emergy Commission speaks of "nuclear devices" and "dangmestic shots," The Arms taks of small-scale "tactical weapons," inlading the atomic artiflety she!

Tour series of atomic tests have been conducted at the Nevada Proving Co. and. The total mander of explosions there by the end of the sampe series of 1933 was expected to be case to 10. The Atomic Energy Action reassuring the Nation, has been assuring the Nation, has been assuring the Nation.

No person has been exposed to a harmful amount of radiation from fall out... No person has been injured by blast waves.. Suaccessive to talk up a discount in the last waves...



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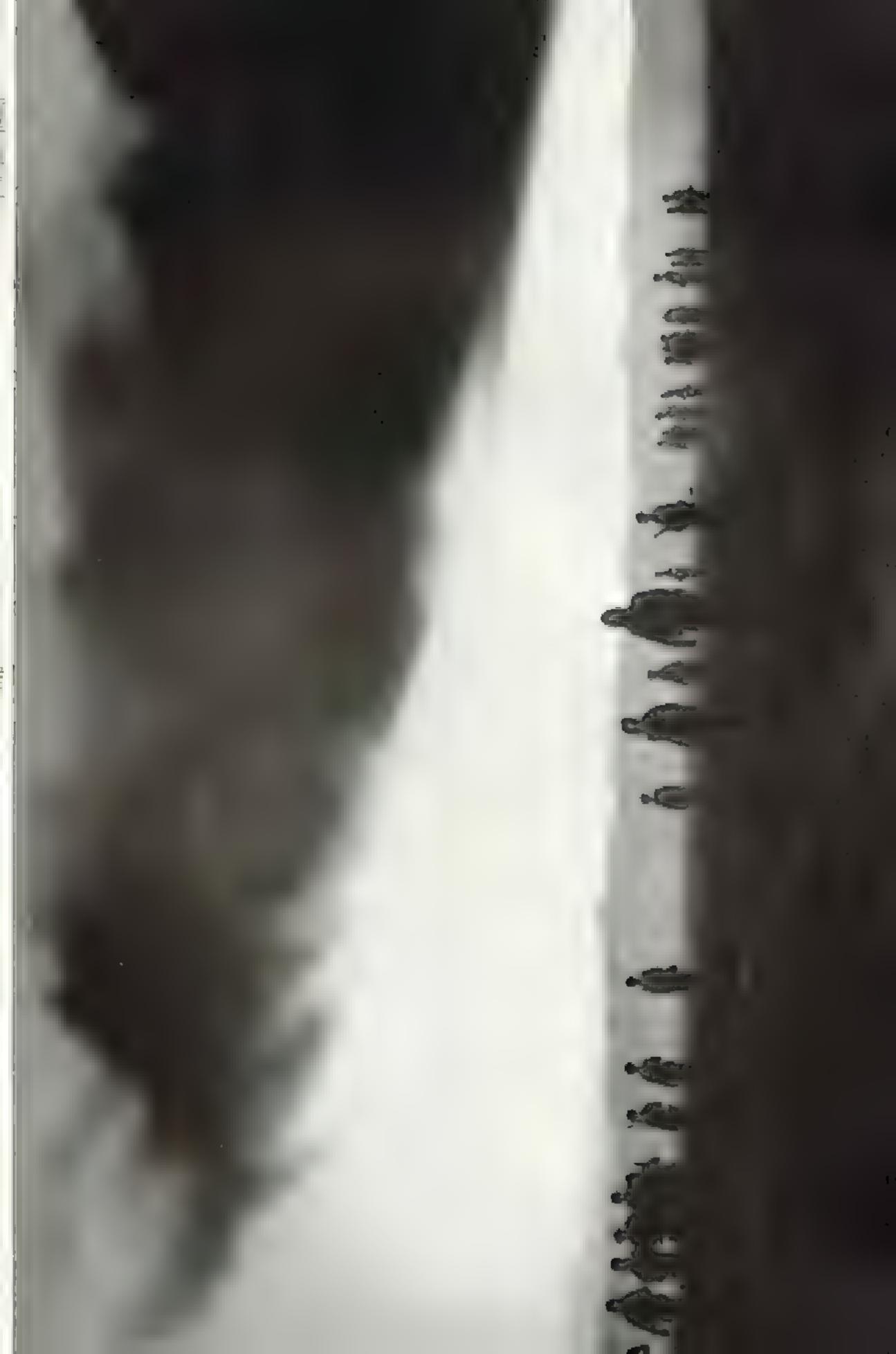
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Masked Men Haver Over the Blass Area to See if Death Still Lingers There

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waitness of the near by Casis Cafe, told me. We wait uptil we hear the planes leave

North and west of Indian Springs for nowether a section for Las Vegas Bombs good Gordon Run where control phots three that last yes

Animals Take Blasts in Stride

Overlapping the hope to verticent to ervation and extending to Frenchman Flat teself the U.S. Desert Grove Range sprawls on assume than 3,440 square miles.

Desolate as the desert may seem, it is home to more then oil different kinds of animals and over 175 hird species. Mountain flows make deer, and inglious sheep roam mountain captions, in k to dots are think

After the first at onic blasts a beacopter traveling bedogist stocked the area carefully life reported no sign of injury. The blasts had not driven animals from their retains tange

nor had their normal hadds been affected in a second to the late of the late o

Seventeer miles Levond I can some same point with to Camp Hesert I. A arrive rathance to the Nevada Proving From 1 Mercery, Nevada.

Except during test series. Heart Road a ghost camp. Concrete test floors before much a few metal meshalls the series the plant of the Specter Kange and Sail Mount we the eerily around a confict that I have for the these portals provide must be restored.

Merary, on the other hand, ranks — Accorda town, thanks to its U.S. post office I are noted in drawback. No one without officed hospiess can get in

Gray-conformed security guards man the first check gate. Only AEC scientists, ste-

nographers, and proving-ground workers live at Mercury, in houses with pluminum roofs designed to reflect the sun's heat.

Town Seared Only Once.

Beatty, Nevada, is the closest sizable town

to Yucca Flat other than Mercury.

"We have a population of about 400, counting kids and dags—and the dags out-tumber the kids," Nye County's Deputy Sheriff Gilbert Lundis said with a grin. The smile lit a coppery face belonging to a full-liberbed Painte Indian.

"Nabody here pays much attention to the bomb flashes any more," he said. "They did once, though. After the first explosion, those radiation fellows came down the main street stopping with their counters every 10 feet or so. Scared as to death. But we didn't have to be evacuated after all. We weren't that."

At Rhyclite, five miles west of Beatty, 8,000 gold-hangry miners and speculators of the early 1900's built a city that was to act the metropolis of southern Nevanta. Risconte then had two railroads, three newspapers an ice plant, a telephone exchange and the convertion that the rich green "genuine Bull-frog" ore would never tun out

I ive people live among the weathered rains of Rhyolite now. Lewis Murphy takes care of the of the two saidings still intact—the Bottle House museum, built of \$1,000 herr bottles.

(page 847).

"Sure, I've seen the thish of that atom. Thing " he admitted. "But who wants to

get up at 5 a.m. just for that?"

Contiels, farther up Route 95, preceded Rhyolite to fortune and gaudy fame. Though 18 glory boles gave up millions of dollars of jewelry gold, art a million a mine operates in Goldfield today. There, we September afternoon in 1900. Tex Rukard staged the light-weight 'Battle of the Century' when Joe Gans bent Battling Nelson. The purse was \$30,000, and the fight went 42 rounds.

Jete Walika, owner of a service station there, sacwed us his National Geographic Society membership certificate. He waved troudly at plaster cracks in the celling.

Of I mit blast really shock us up.

"Most people coming through Goldfield stop to ask if the air is sate between large and Beatty. It is, but they still seem bery."

We turned off to seek out one of the West's most famous old prospectors, SJ-year-old Death Valley Scotty, in his ornate Casale.

What do I know about the Bomb? Doggone it, young fellow, asking my opinion is like pulling a boir out of a horse's tail and asking him how fast he can run! I don't know any more about it than a jackuss braying

Lower in Death Valley a dust storm caught us in a waite haze of flying sand and alkalight. Even at the bottom of this valley of heat, where Bad Water loss tear the Western Hemisphere's lowest point, flashes from the atomic tests sometimes light up the sky.

At the Moapa River Indian Reservation 35 miles east of the proving ground we found

Luther Hill, a Chemeluevi tribesman.

"People here are not frightened by the flashes," he said. "Perhaps they would be I they were closer. But as it is, they pay little attention."

One of Nevada's firest natural spectacles is hidden in the mountains southeast of Moapa. Rouge-red sandstone eroded into funtastic shapes makes the Valley of Fire a fitting sentinel to the atom's firsh.

Jolted Almost Out of Bed

Northwest of Moapa, 30 miles off Highway 93 in the Timpahule mountains, live the Isolated people of Ground Mine, closest inhabited off-site point to the atomic blasts, twenty miles away.

The Sheahan family and their mine employees were skeping peacefully on the mornion of January 27, 1951, when the first explesion on Frenchman blat almost knocked

them out of bed.

The family aids the Atomic Energy Comnission by allowing a tadiation manifering stations within 200 miles of the test site. The mine workers wear special "hadges" of radio-sensitive film during and after each explosion as a further check of exposure to radioactivity. They have and to be evacuated only once under its bazard (page 841).

In their mountain grandstand seat, the owners of Groom Mine buve the clearest and closest outside view of the tremendous fireworks which atomic science produces inside

this country.

And yet, to Nevadans, the atomic tests are only one more superlative in a State endowed with already spectacular history and scenery.*

*Ser "Nevada, Levert Terrente House," by W. Nobe t. Moure, National Geometrie Magazine, January, 1946.

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EXECUTIVE STAFF OF NATIONAL GEOGRAPHIC MAGAZINE.

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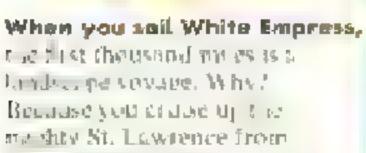
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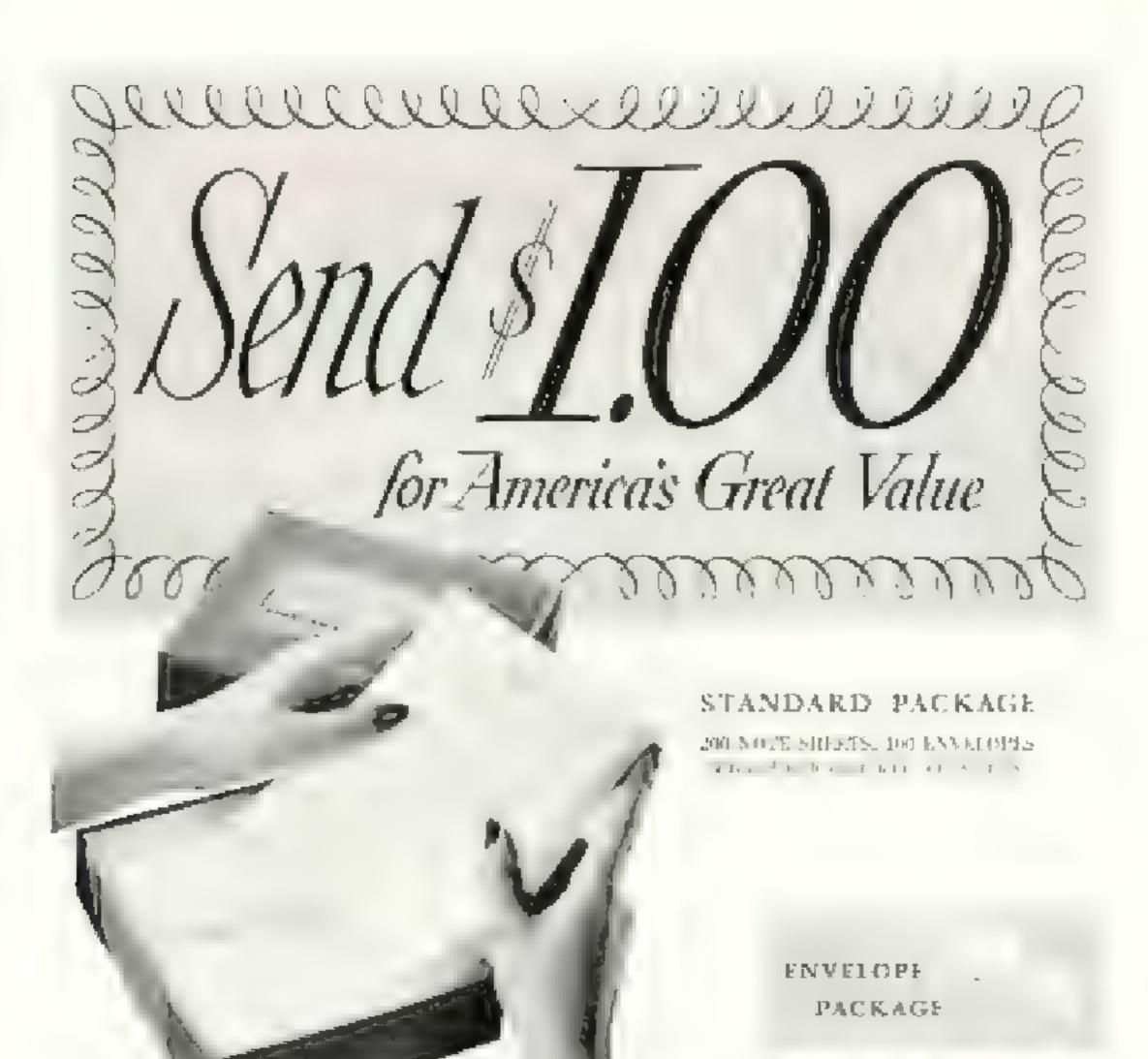


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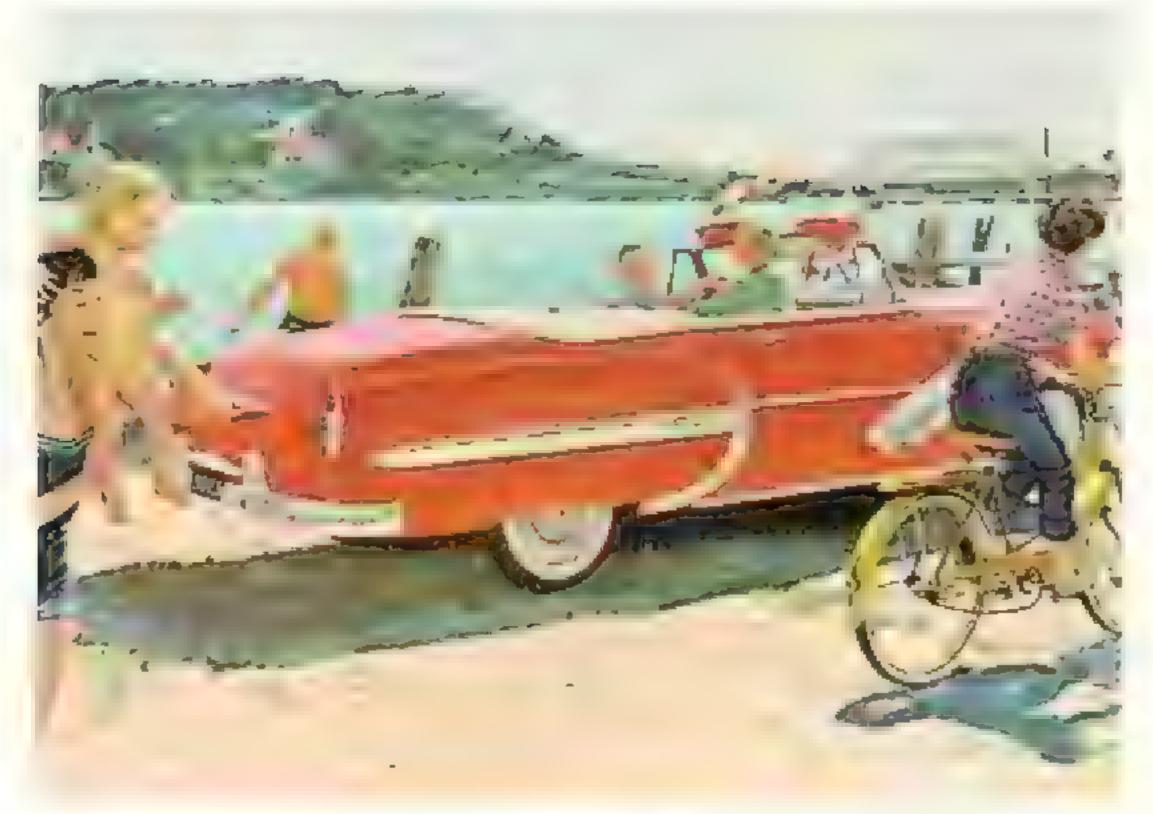
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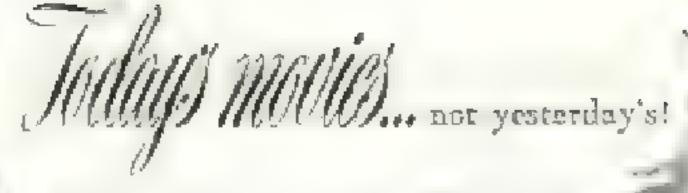
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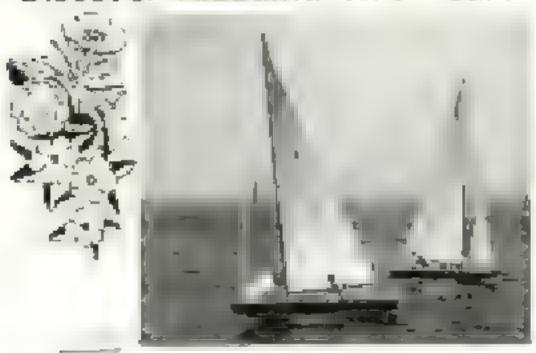
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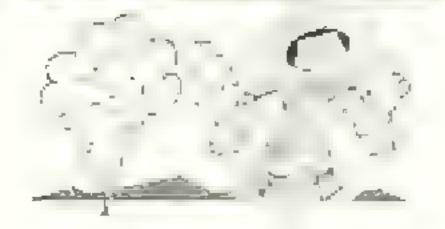


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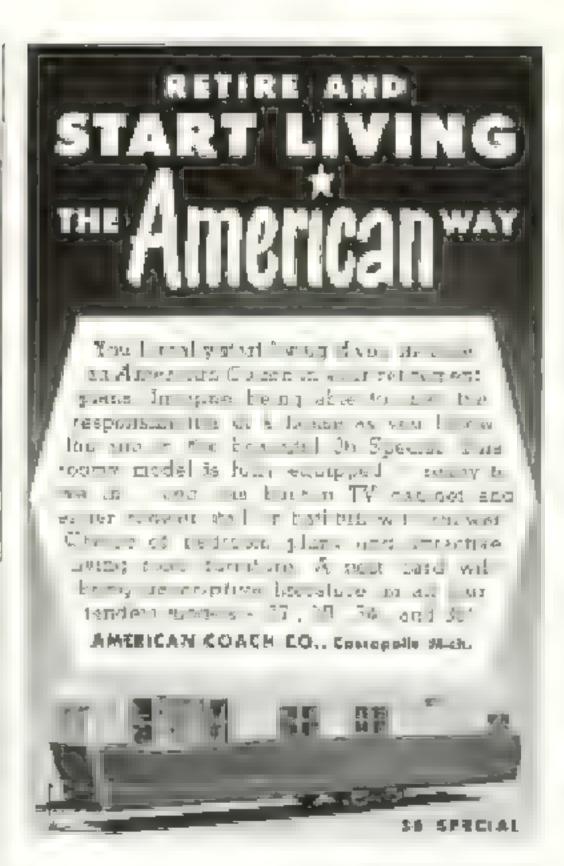
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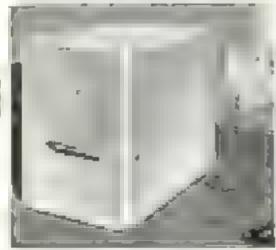


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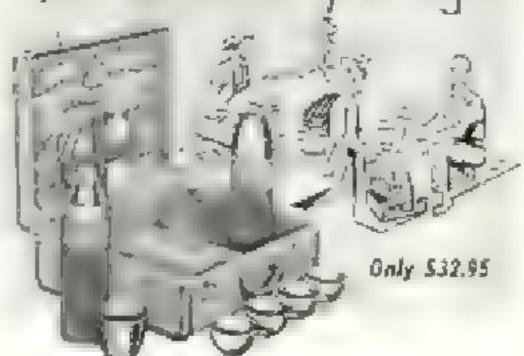
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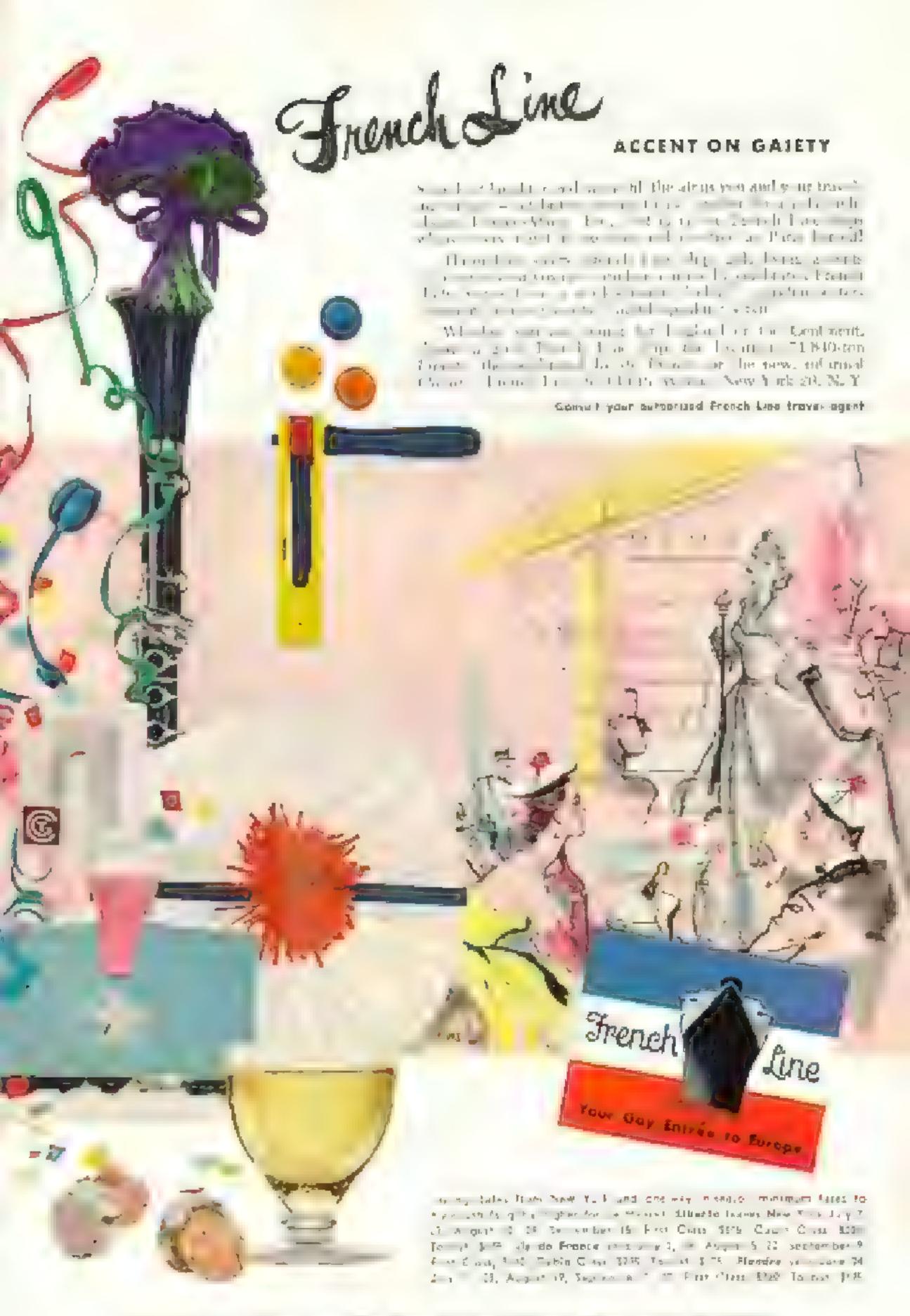
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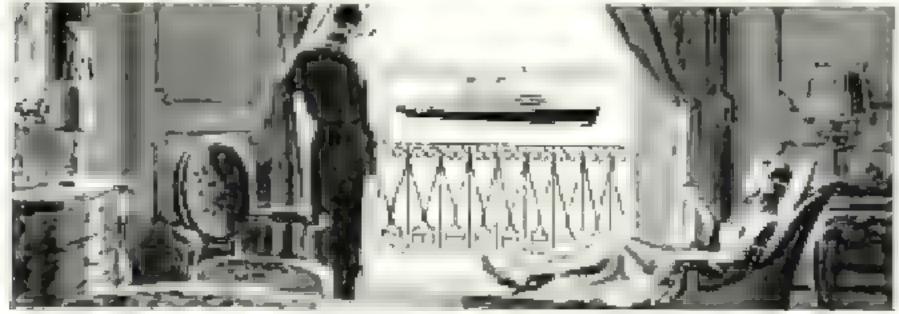
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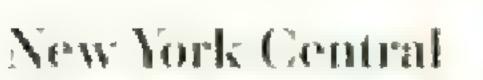
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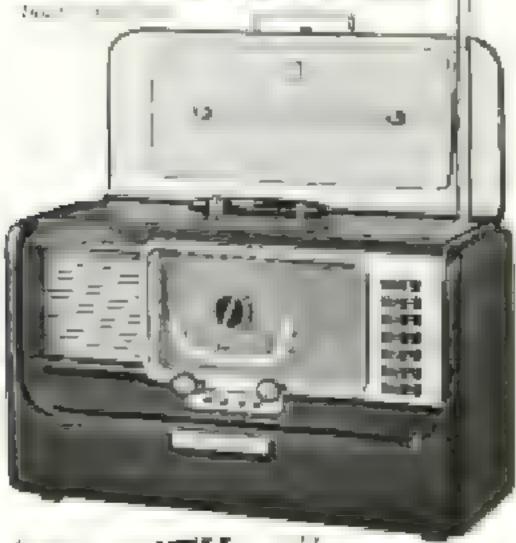
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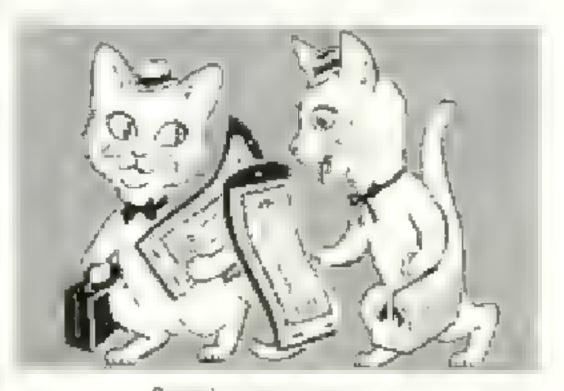
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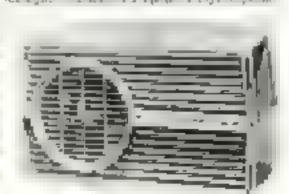
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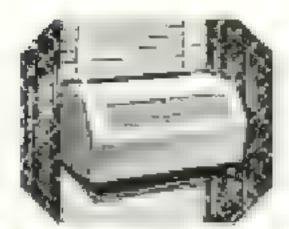
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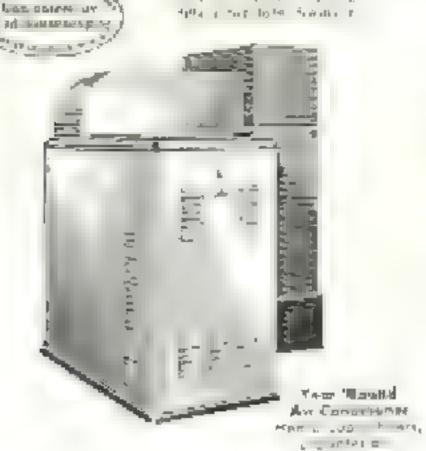
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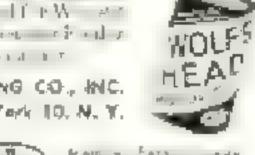


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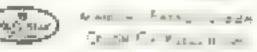
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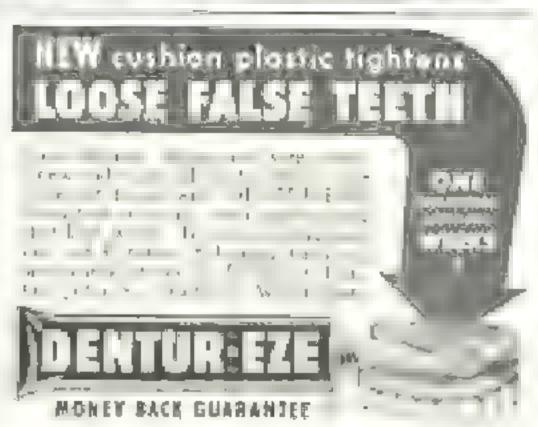


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Accidents in the water ... About half of the 6.500 wittings that take place each year occur during lane, July, and August. Safety nathemater say that many drawn ligs could be prevented through these simpse precautions; were exampled their or when a light realizated, or two manufacturing. Above all, learn have to give artificial respiration, and always observe talety takes posted on becauses.



Burns from the num... Nover over-expose your-self to the sun, especially during the history part of the day, fleg a your tanning with brief periods, no more than (1) minutes the first day, with gradual increases thereafter. If long periods are spent in the san, use a lotton or cream which may help to protect you. Apply it after each swim—and every liver hours which whale summing



injuries from outdoor activities... Over-more the ing can stream a muscle. Should this occur, rest the nurses and apply beat. Should a sudden wrench corona a joint, it is best to elevate it and use cold approaches. Cover bruness with an ice hag of cold cloths. Cuts and actatenes should be treated premptly with its antiseptic such as Especient solution of octine. Always have skeys someon and either scraims imposes treated by a cocior.

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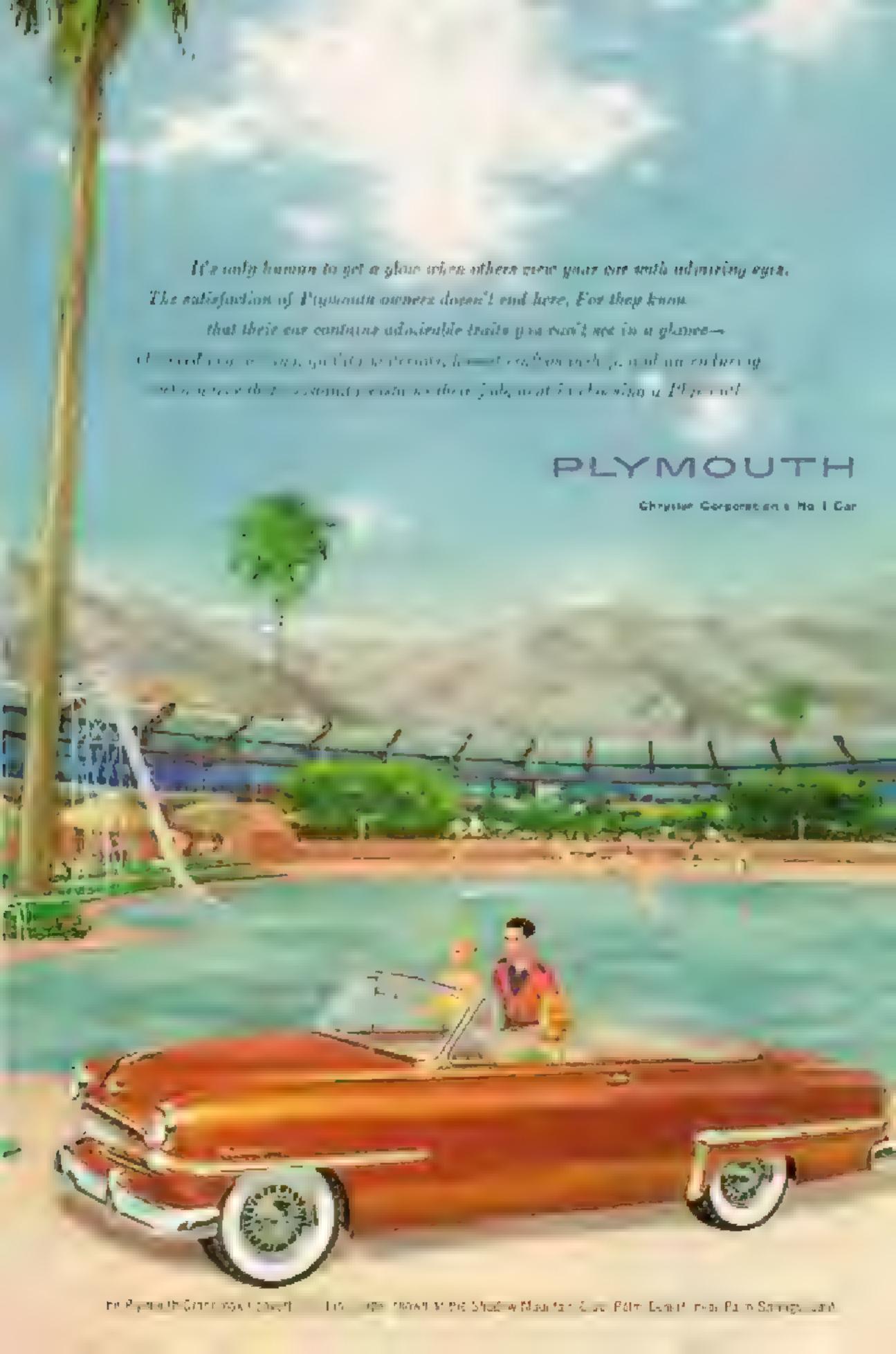
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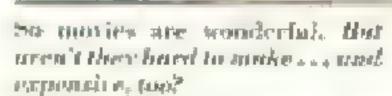
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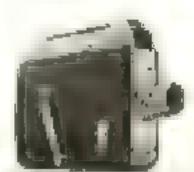
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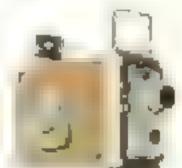
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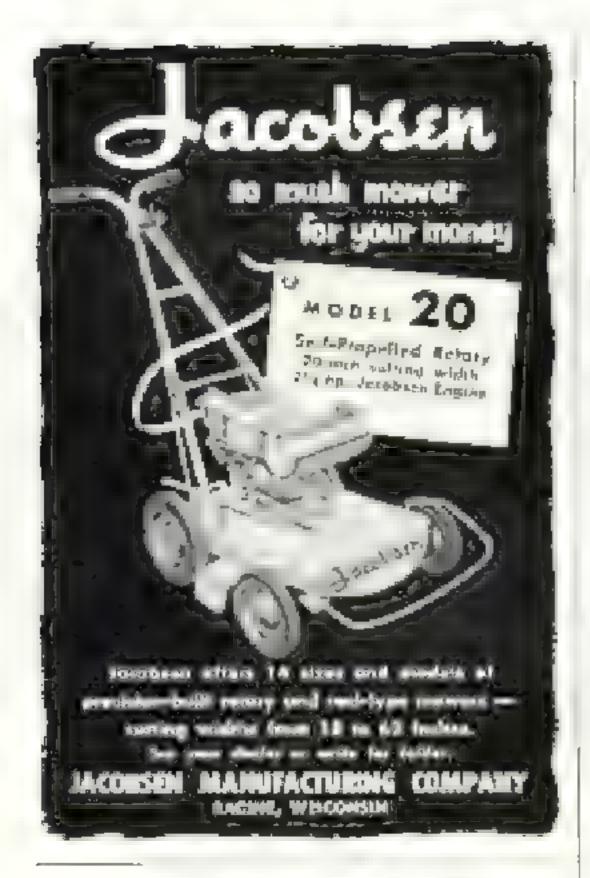
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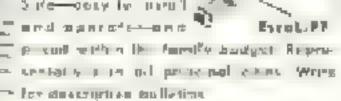




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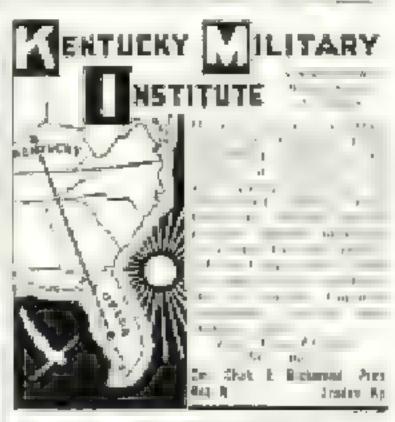
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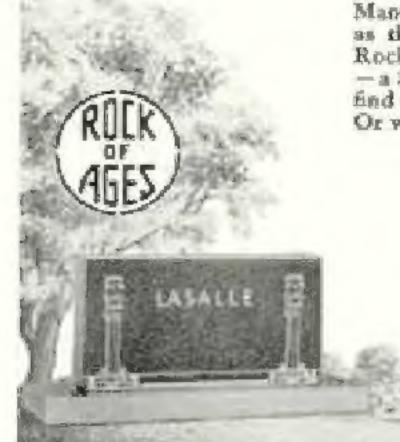


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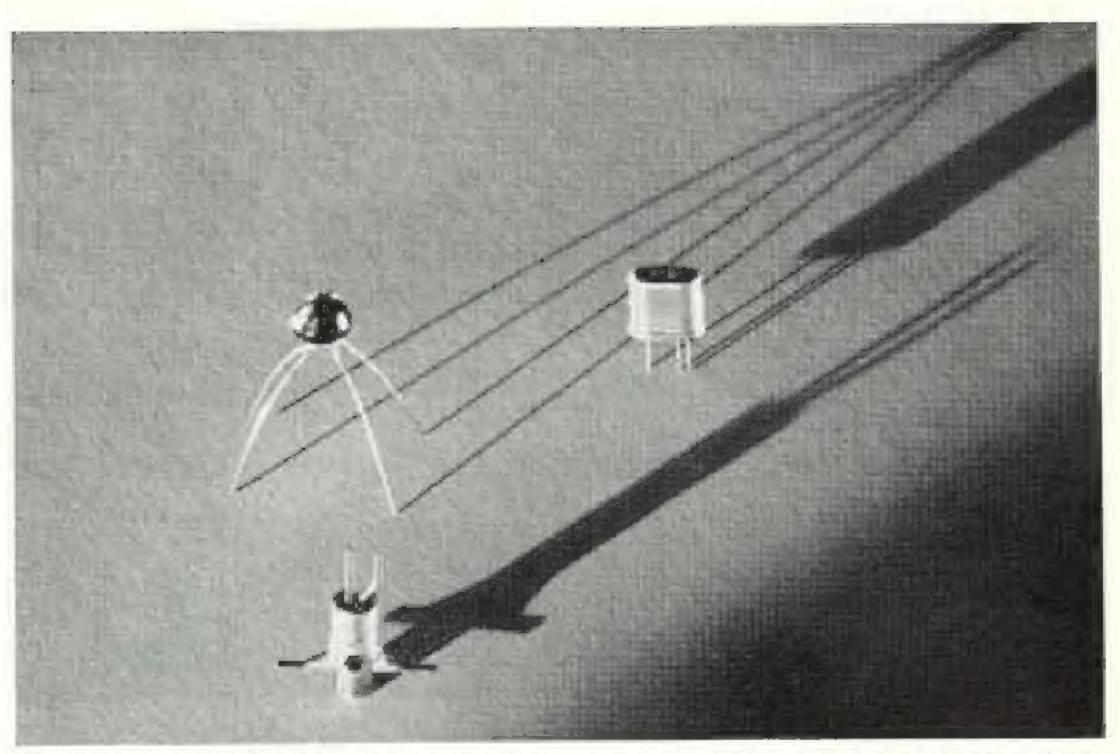
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